

HCD-FR10W

SERVICE MANUAL

Ver. 1.2 2004. 12

US Model
Canadian Model



HCD-FR10W is the amplifier, DVD/SACD and tuner section in DAV-FR10W.

Model Name Using Similar Mechanism	HCD-FR1
Mechanism Type	CDM69-DVBU16
Optical Pick-up Name	DBU-1

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 4 ohm loads, both channels driven, from 20 – 20,000 Hz; rated 75 watts per channel minimum RMS power, with no more than 0.7 % total harmonic distortion. (from 250 milli watts to rated output)

Amplifier section

Surround mode (reference)
music power output

Front: 114 W + 114 W (with SS-TS21)
Center*: 114 W (with SS-CT33)
Surround*: 114 W + 114W (with SA-TS22W, SS-TS21)
Subwoofer*: 115 W × 2 (with SS-WS12)

* Depending on the sound field settings and the source, there may be no sound output.

Inputs VIDEO/SAT:
Sensitivity: 250 mV/450 mV
Impedance: 50 kilohms
SURROUND BACK
Voltage: 2V
Impedance: 1 kilohms
Accepts low-and high-impedance headphones.

Output

Phones

Super Audio CD/DVD system

Laser Semiconductor laser
(Super Audio CD/DVD: $\lambda = 650 \text{ nm}$)
(CD: $\lambda = 780 \text{ nm}$)
Emission duration: continuous
Signal format system NTSC
Frequency response (at 2 CH STEREO mode)
DVD (PCM): 2 Hz to 22 kHz ($\pm 1.0 \text{ dB}$)
CD: 2 Hz to 20 kHz ($\pm 1.0 \text{ dB}$)
Harmonic distortion Less than 0.03 %

Tuner section

System PLL quartz-locked digital synthesizer system
FM tuner section
Tuning range 87.5 – 108.0 MHz (100 kHz step)
Antenna (aerial) FM wire antenna (aerial)
Antenna (aerial) terminals 75 ohms, unbalanced
Intermediate frequency 10.7 MHz
AM tuner section
Tuning range 531 – 1,710 kHz (with the interval set at 9 kHz)
530 – 1,710 kHz (with the interval set at 10 kHz)

Antenna (aerial) AM loop antenna (aerial)
Intermediate frequency 450 kHz

Video section

Outputs Video: 1 Vp-p 75 ohms\ S VIDEO:
Y: 1 Vp-p 75 ohms
C: 0.286 Vp-p 75 ohms
COMPONENT:
Y: 1 Vp-p 75 ohms
P_B/C_B, P_R/C_R: 0.65 Vp-p 75 ohms

General

Power requirements 120 V AC, 60 Hz
Power consumption 90 W
Dimensions (approx.) 430 × 70 × 398 mm (17 × 2 7/8 × 15 3/4 inches) (w/h/d) incl. projecting parts
Mass (approx.) 5.5 kg (12 lb 12 oz)

Design and specifications are subject to change without notice.

SACD/DVD RECEIVER

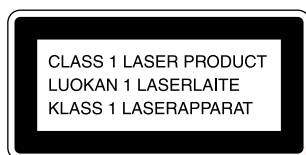
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2004L16-1
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Audio Group
Published by Sony Engineering Corporation

SONY®

HCD-FR10W

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.



This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead. (Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)



LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
Soldering irons using a temperature regulator should be set to about 350 °C.
Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK $\triangle$ OR DOTTED LINE WITH MARK $\triangle$ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes.). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

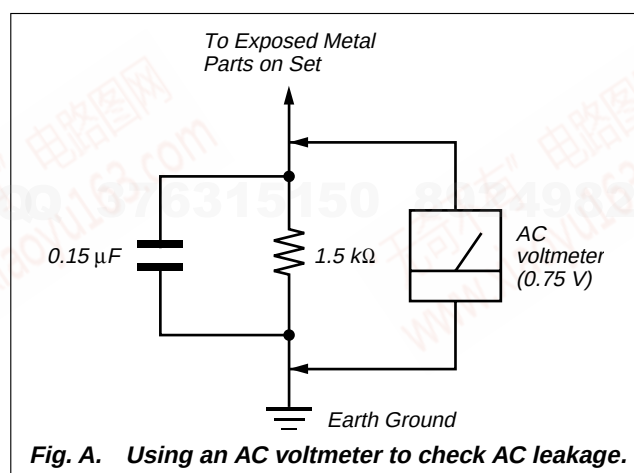


Fig. A. Using an AC voltmeter to check AC leakage.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE $\triangle$ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COM- POSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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SECTION 1 SERVICING NOTE

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

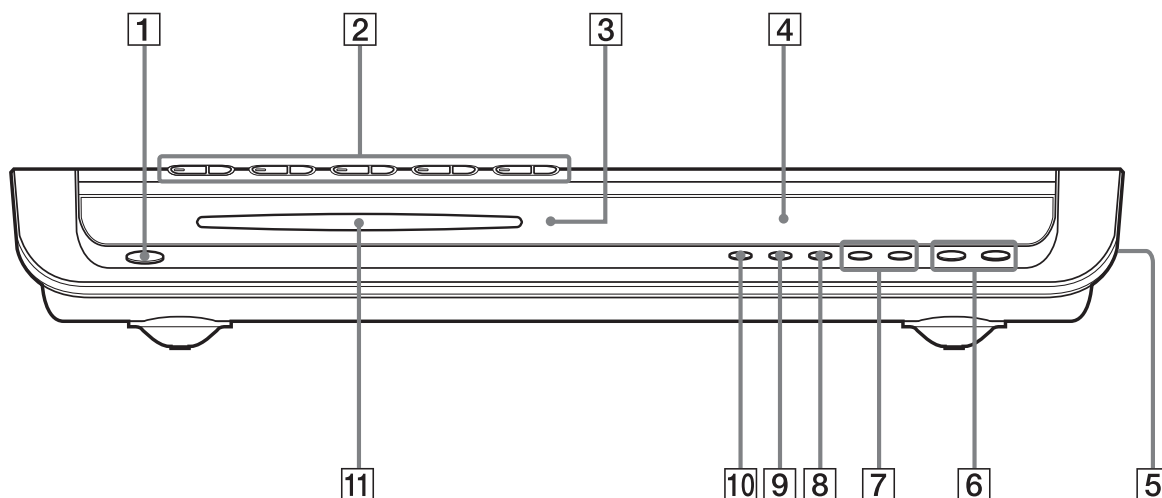
NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

SECTION 2 GENERAL

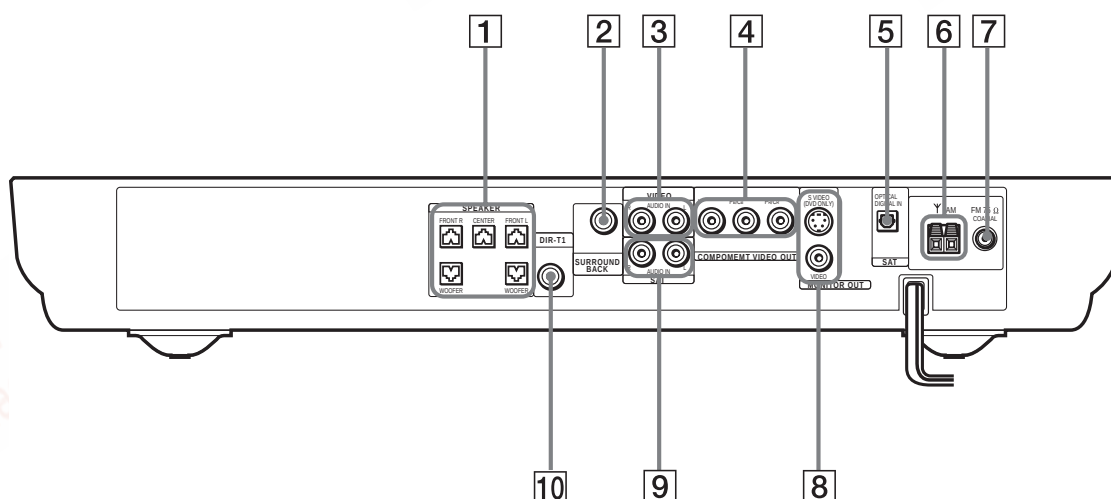
This section is extracted from instruction manual.

Front Panel



- | | |
|--|--------------------------|
| 1 I/⏻ (power) switch/STANDBY indicator | 6 VOLUME +/- |
| 2 DISC1-5 ▲ (eject)/indicators | 7 ⏮/⏭ |
| 3 Ⓜ (remote sensor) | 8 ■ (stop) |
| 4 Front panel display | 9 ▶⏮ (play/pause) |
| 5 PHONES (on the side of the system) jack | 10 FUNCTION |
| | 11 Disc slot |

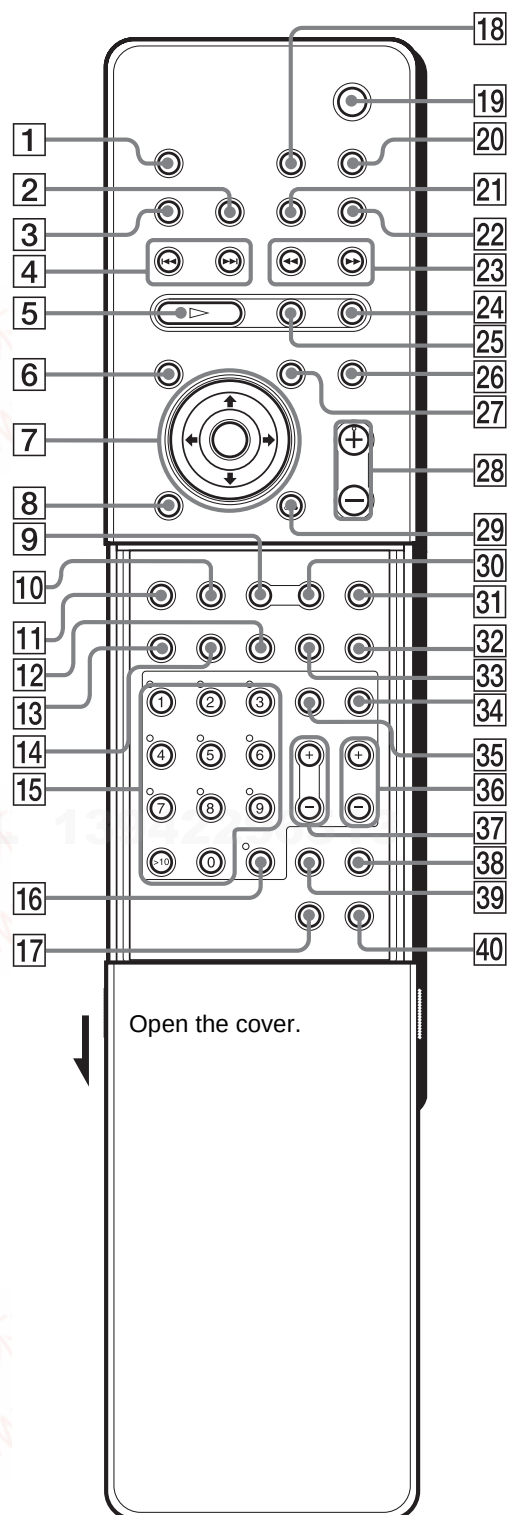
Rear Panel



- | | |
|---|---|
| 1 SPEAKER jacks (16) | 6 AM terminals (21) |
| 2 SURROUND BACK jack (18) | 7 FM 75 COAXIAL jack (21) |
| 3 VIDEO AUDIO IN (L/R) jacks (23) | 8 MONITOR OUT (VIDEO/S VIDEO) jacks (23) |
| 4 COMPONENT VIDEO OUT jacks (23) | 9 SAT AUDIO IN (L/R) jacks (23) |
| 5 SAT OPTICAL DIGITAL IN jack (24) | 10 DIR-T1 jack (16) |

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Remote



- 1 DISC SKIP
- 2 DISPLAY
- 3 SLEEP
- 4 ◀◀/▶▶, PRESET -/+
- 5 ▷ (play)
- 6 DVD TOP MENU/ALBUM-
- 7 ◀/▶/◀/▶/ENTER
- 8 DVD DISPLAY
- 9 AUTO FORMAT DIRECT
- 10 DSGX
- 11 DVD SETUP
- 12 SUBTITLE
- 13 AUDIO
- 14 ANGLE
- 15 Number buttons
- 16 ENTER
- 17 TUNER MENU
- 18 TV I/⏻ (on/standby)
- 19 I/⏻ (standby)
- 20 SONY TV DIRECT
- 21 TUNER/BAND
- 22 FUNCTION
- 23 ◀◀/▶▶/◀/▶ SLOW, TUNING -/+
- 24 ■ (stop)
- 25 || (pause)
- 26 MUTING
- 27 DVD MENU/ALBUM+
- 28 VOL +/-
- 29 ↶ RETURN
- 30 MODE
- 31 NIGHT MODE
- 32 PLAY MODE
- 33 REPEAT
- 34 TV
- 35 TV/VIDEO
- 36 TV CH +/-
- 37 TV VOL +/-
- 38 AMP MENU
- 39 CLEAR
- 40 FM MODE

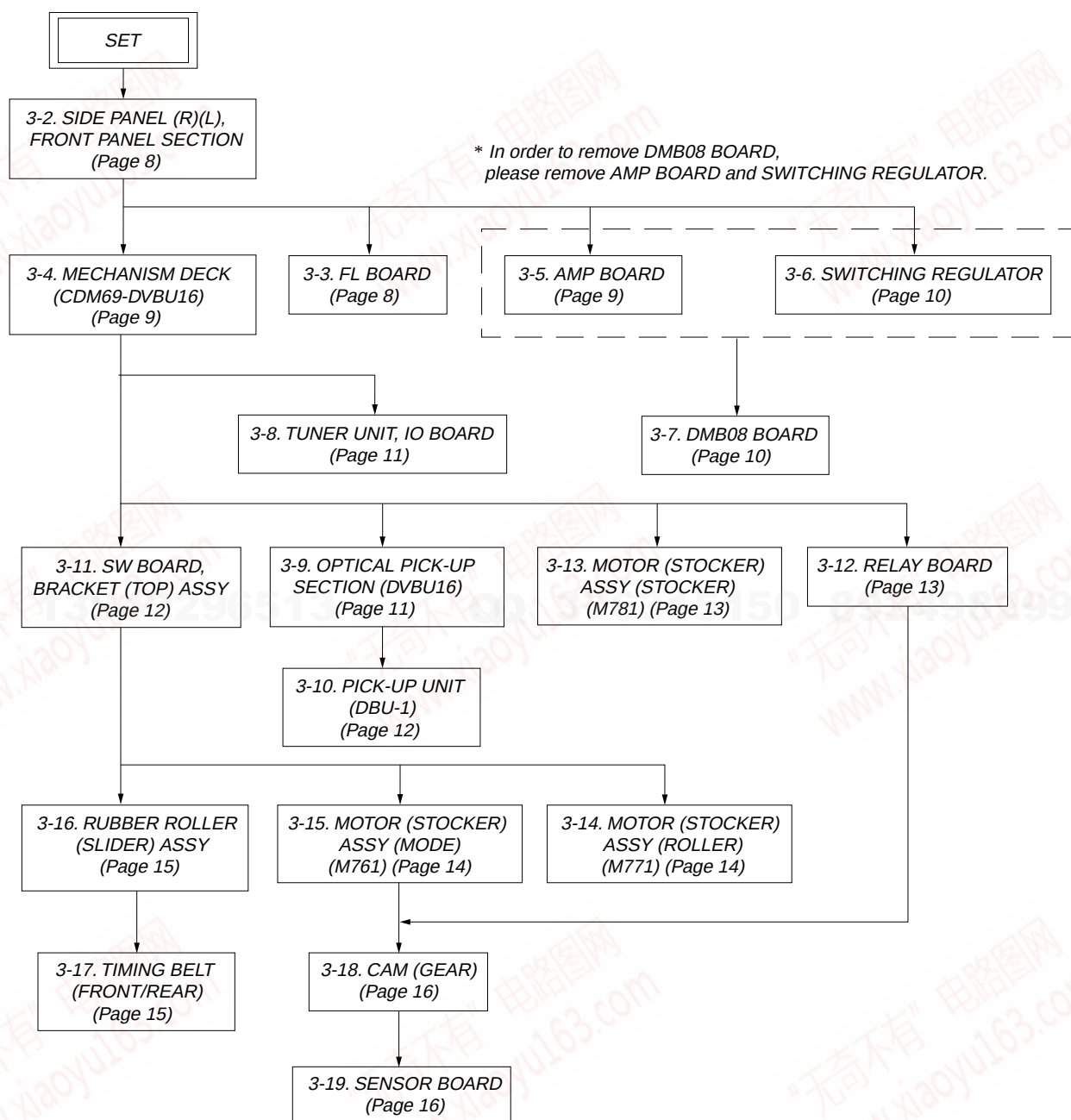
Note

This remote control glows in the dark. However, before glowing, the remote must be exposed to light for awhile.

SECTION 3 DISASSEMBLY

- This set can be disassembled in the order shown below.

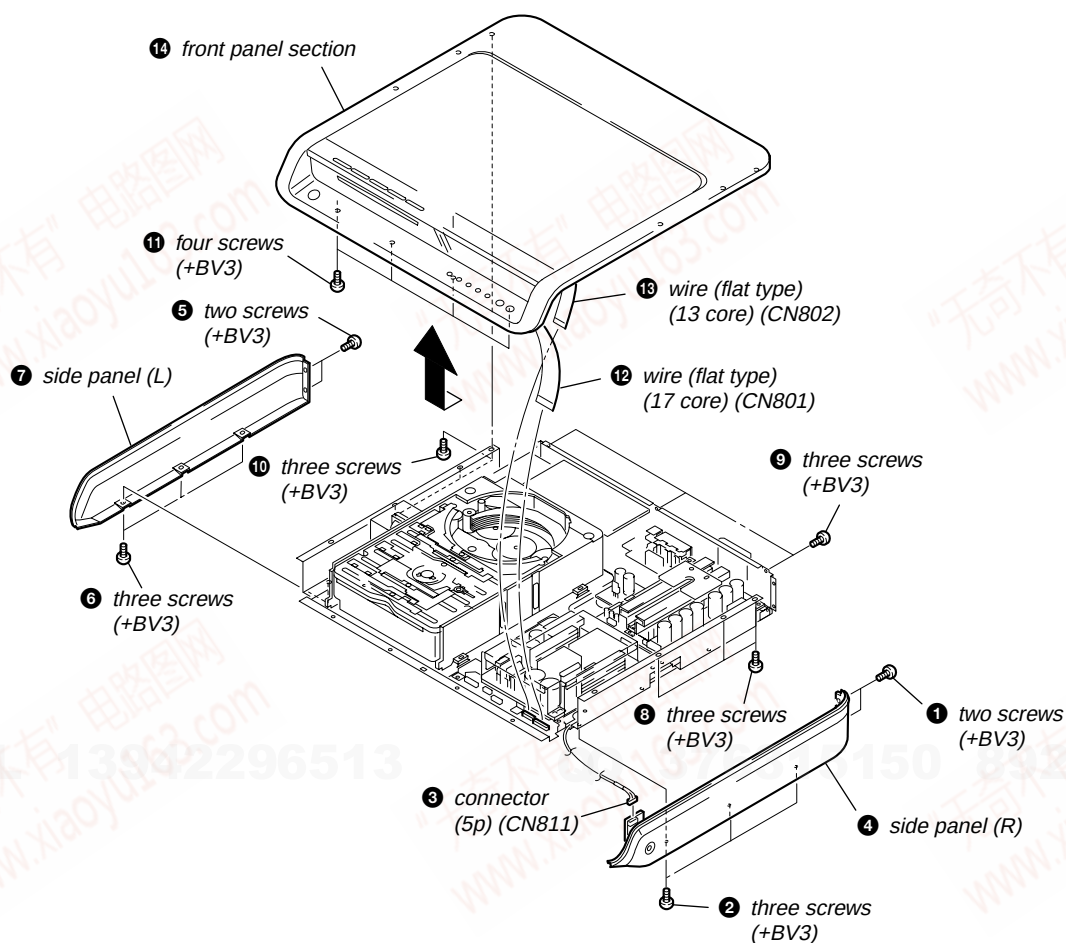
3-1. FLOW CHART



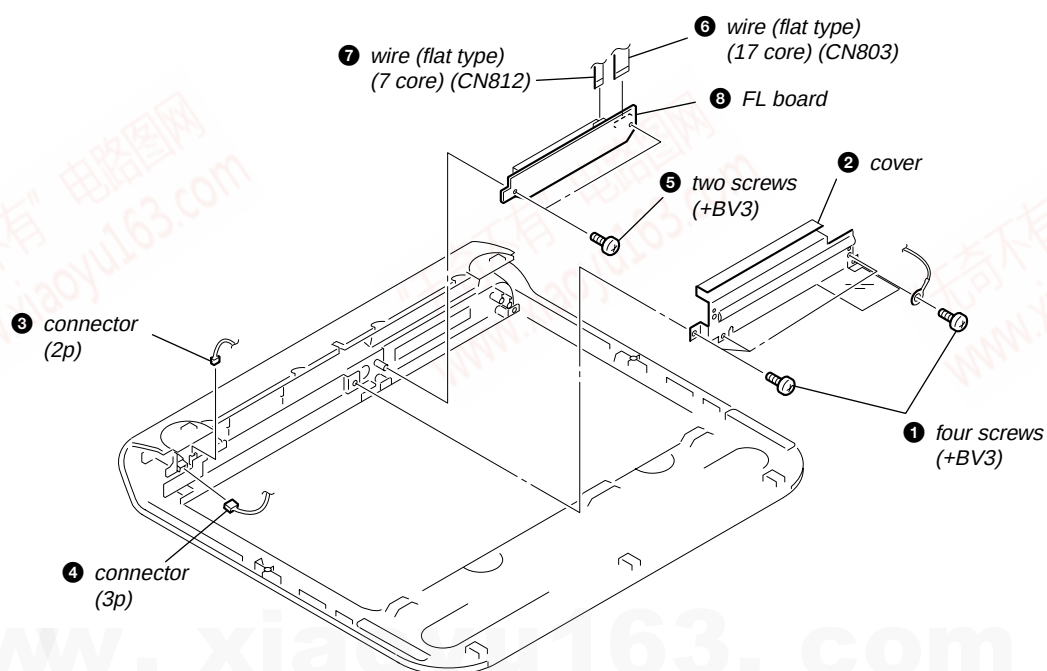
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Note: Follow the disassembly procedure in the numerical order given.

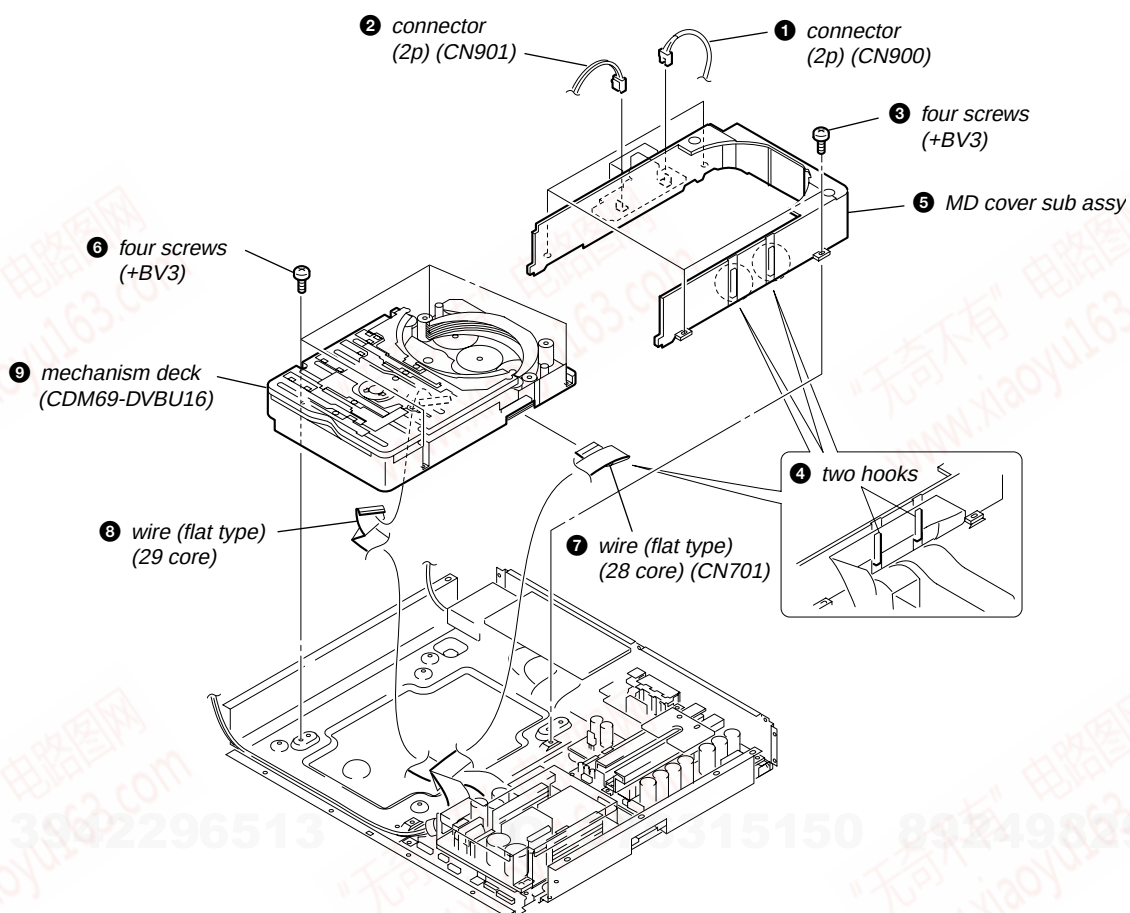
3-2. SIDE PANEL (R) (L), FRONT PANEL SECTION



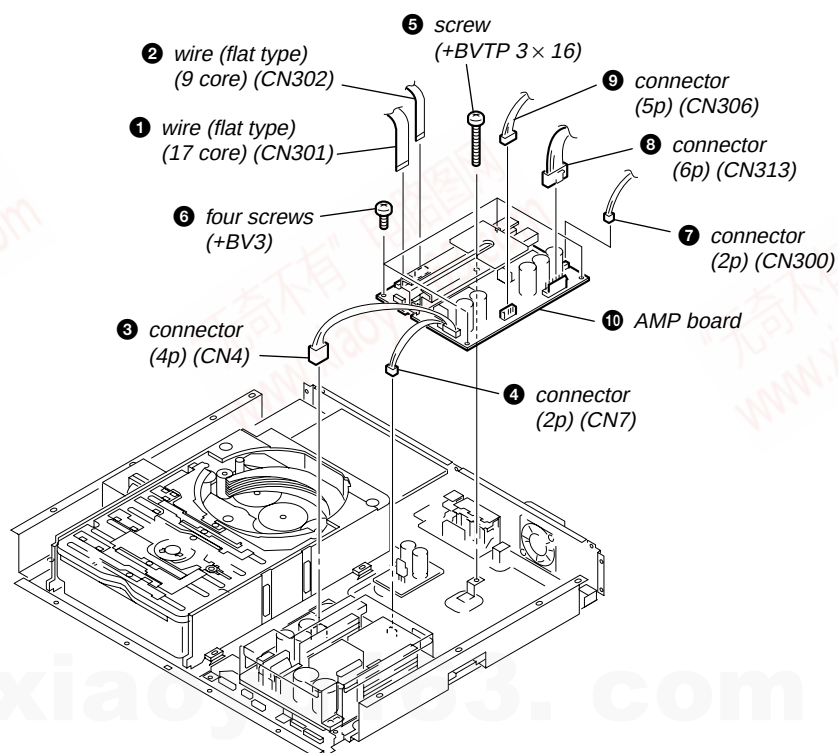
3-3. FL BOARD



3-4. MECHANISM DECK (CDM69-DVB16)

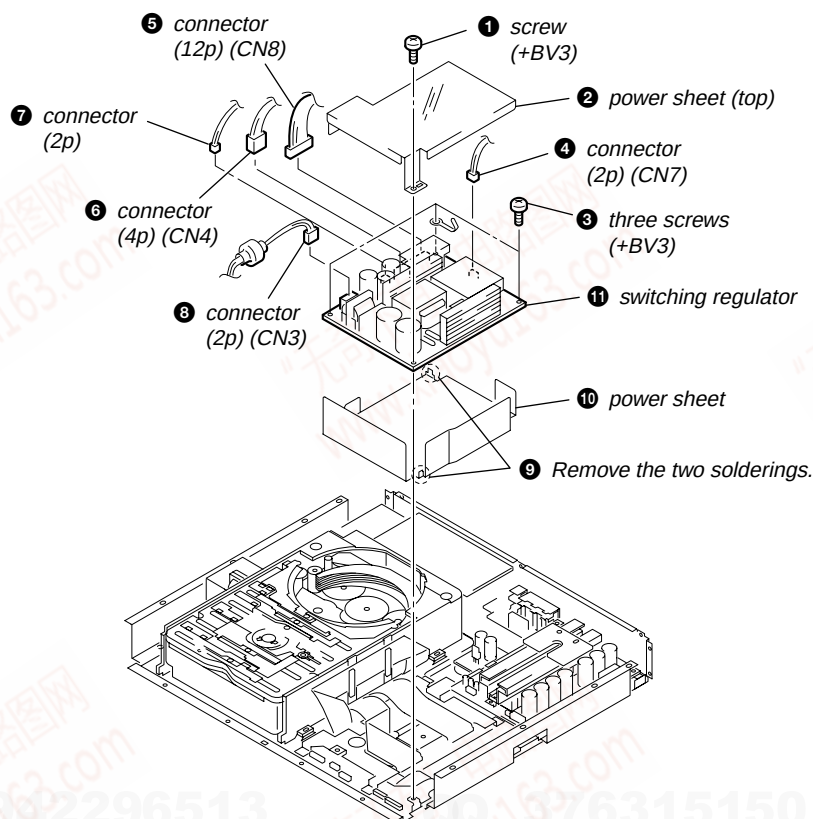


3-5. AMP BOARD

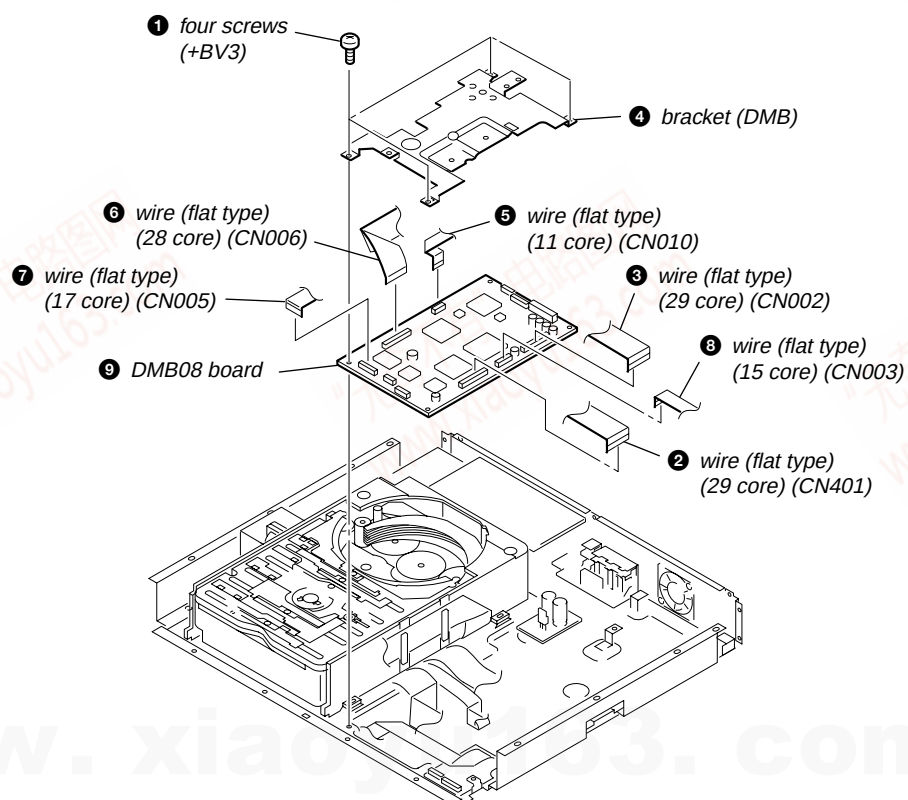


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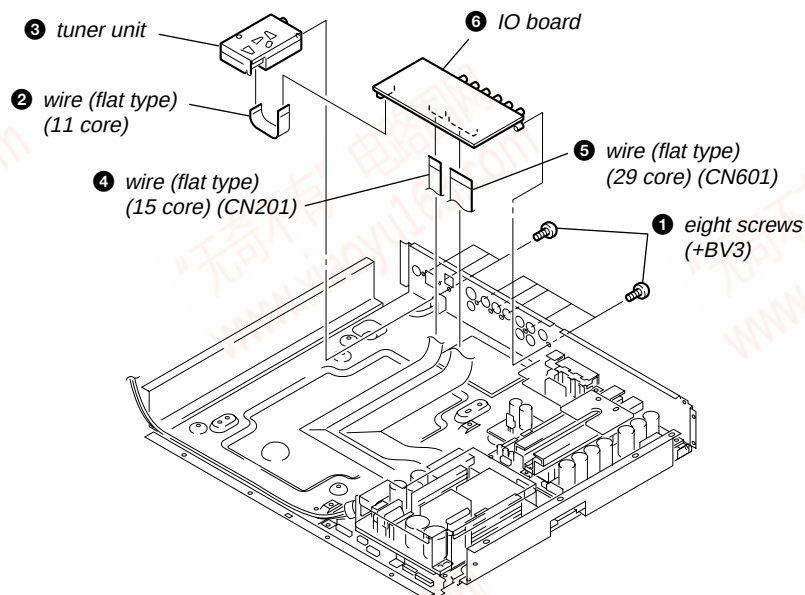
3-6. SWITCHING REGULATOR



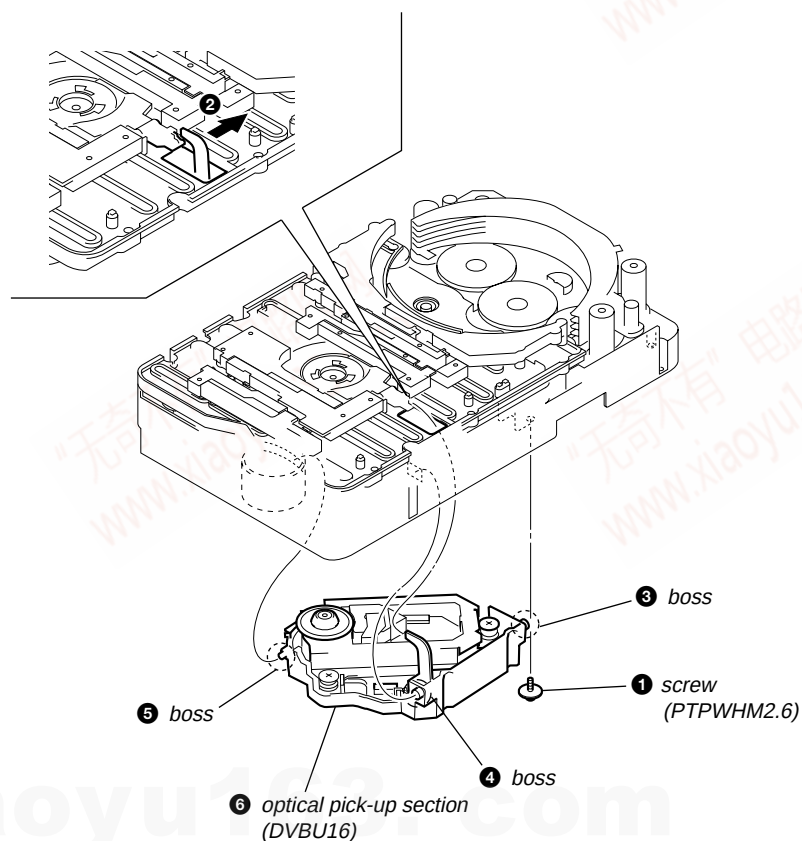
3-7. DMB08 BOARD



3-8. TUNER UNIT, IO BOARD

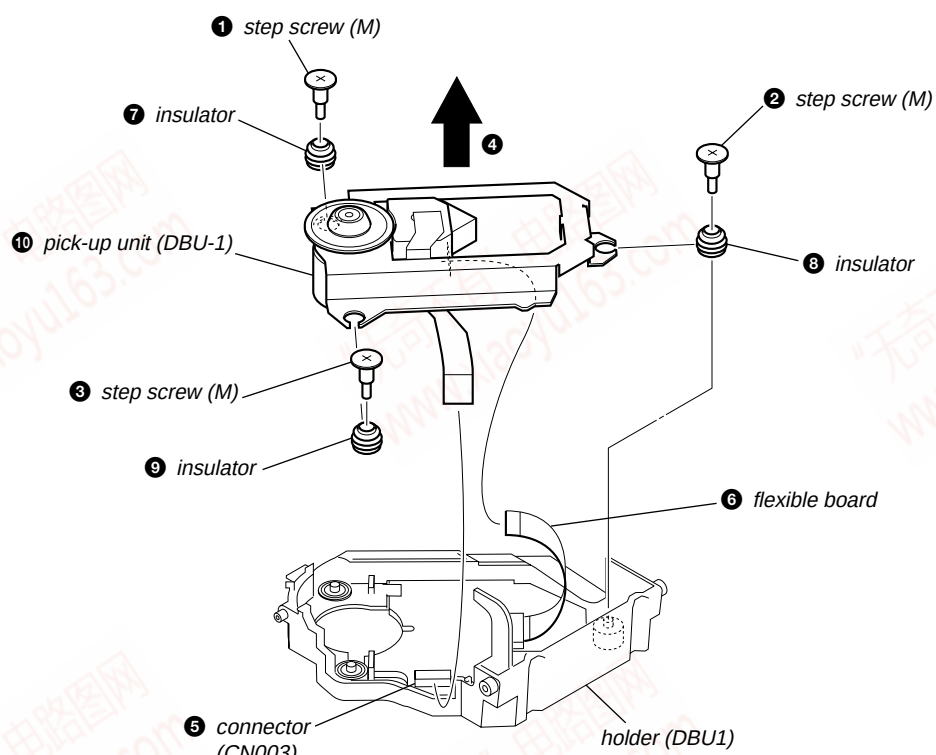


3-9. OPTICAL PICK-UP SECTION (DVBU16)

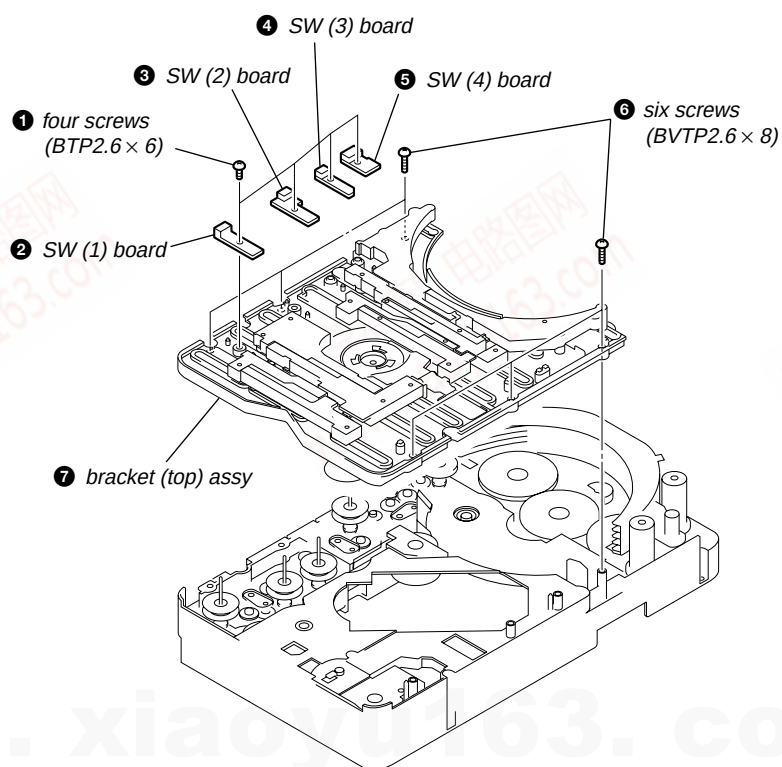


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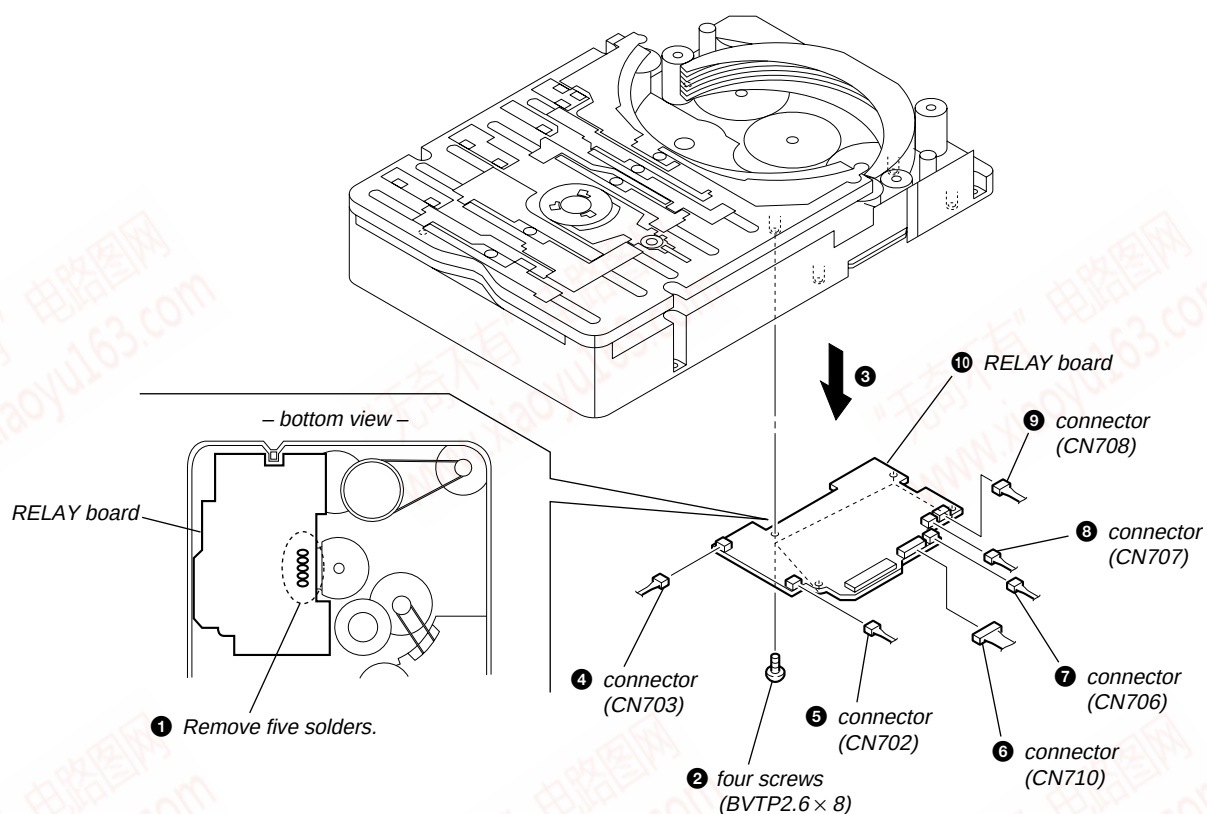
3-10. PICK-UP UNIT (DBU-1)



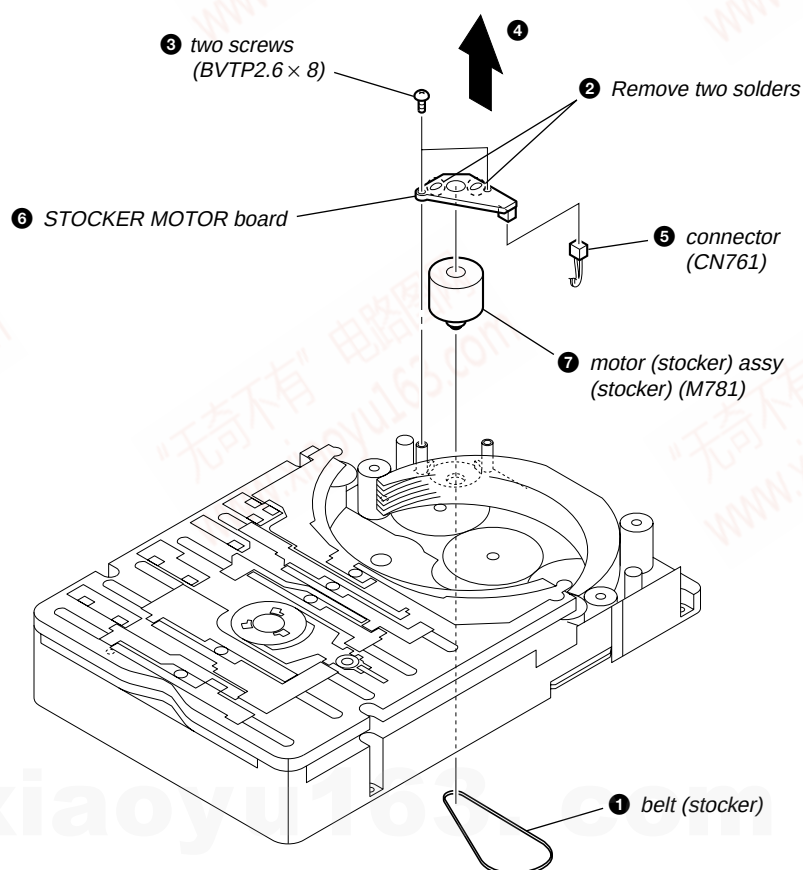
3-11. SW BOARD, BRACKET (TOP) ASSY



3-12. RELAY BOARD

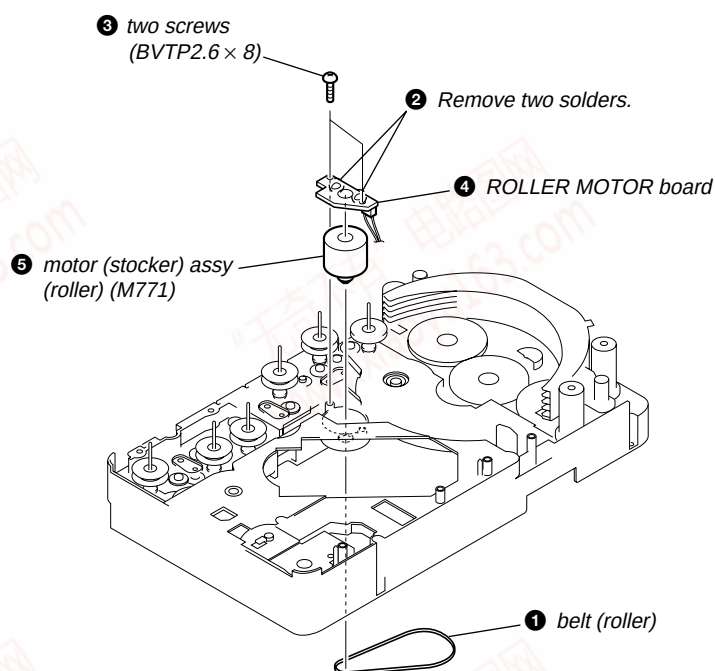


3-13. MOTOR (STOCKER) ASSY (STOCKER) (M781)

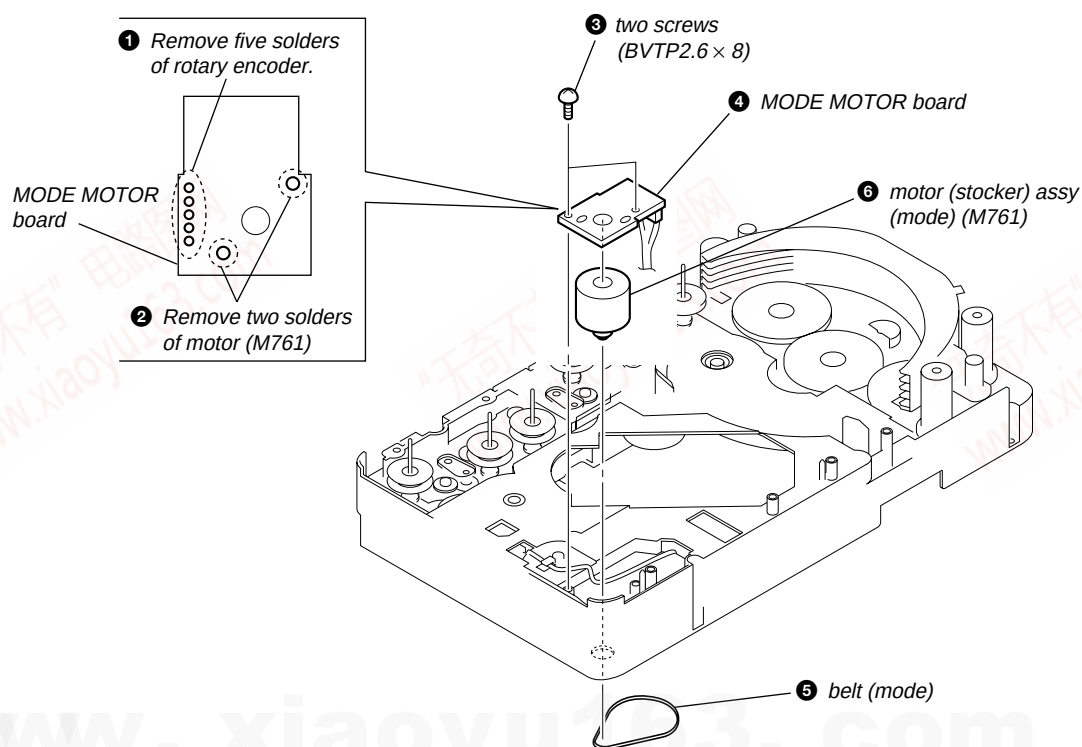


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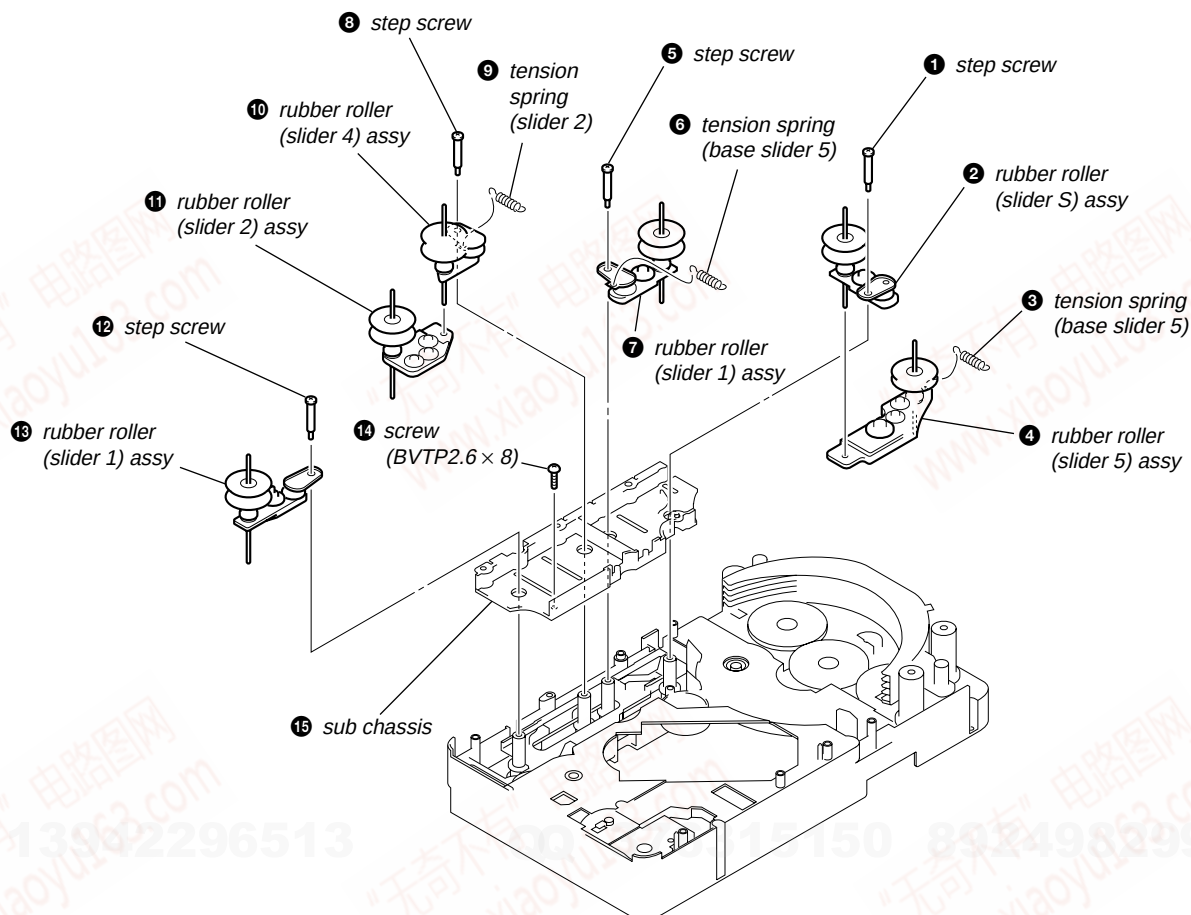
3-14. MOTOR (STOCKER) ASSY (ROLLER) (M771)



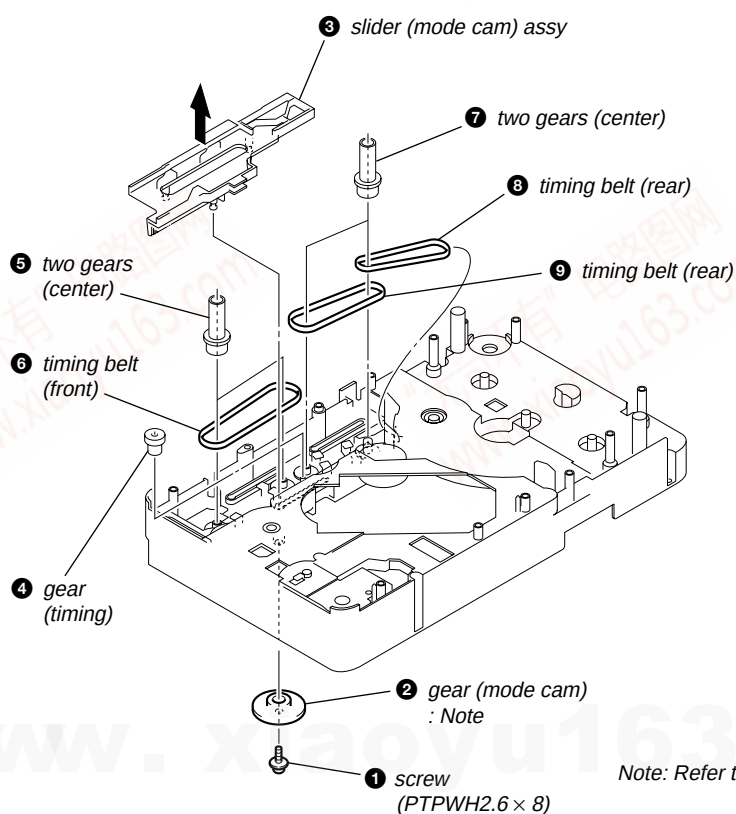
3-15. MOTOR (STOCKER) ASSY (MODE) (M761)



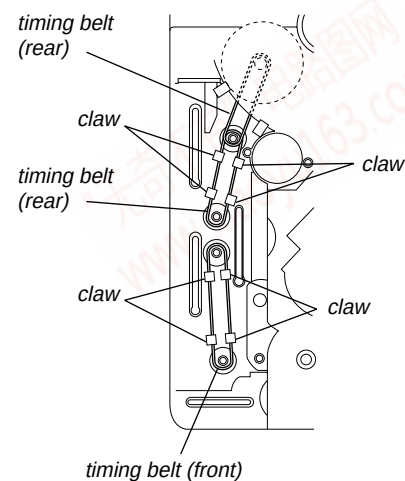
3-16. RUBBER ROLLER (SLIDER) ASSY



3-17. TIMING BELT (FRONT/REAR)



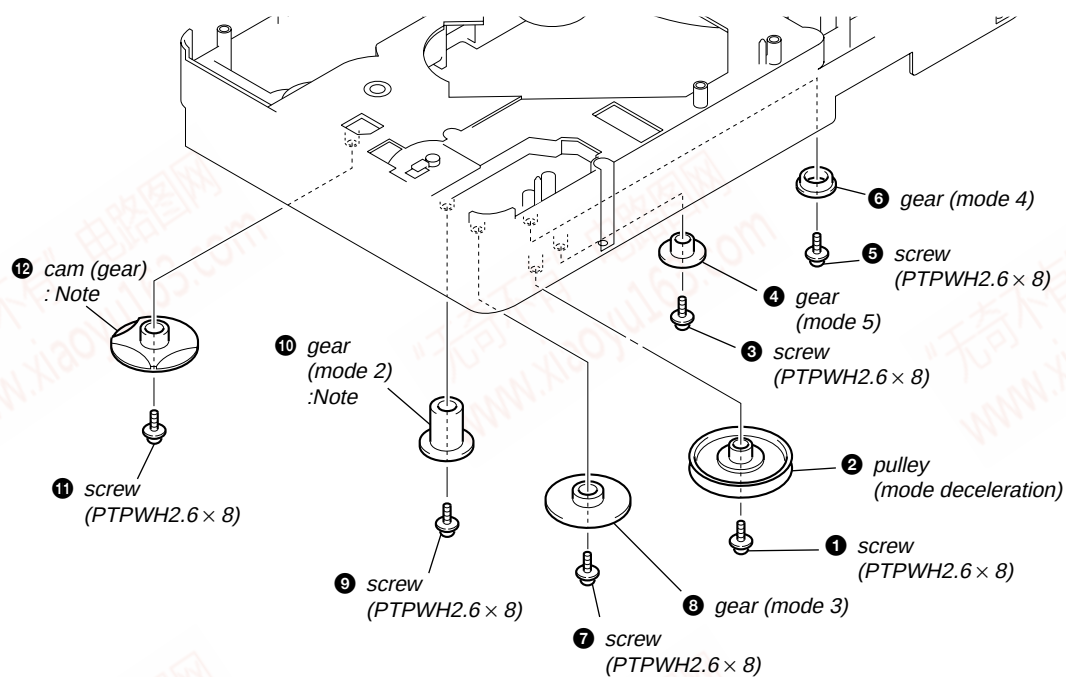
When install three timing belts, its pass under each claws.



Note: Refer to assembly (Section 4)

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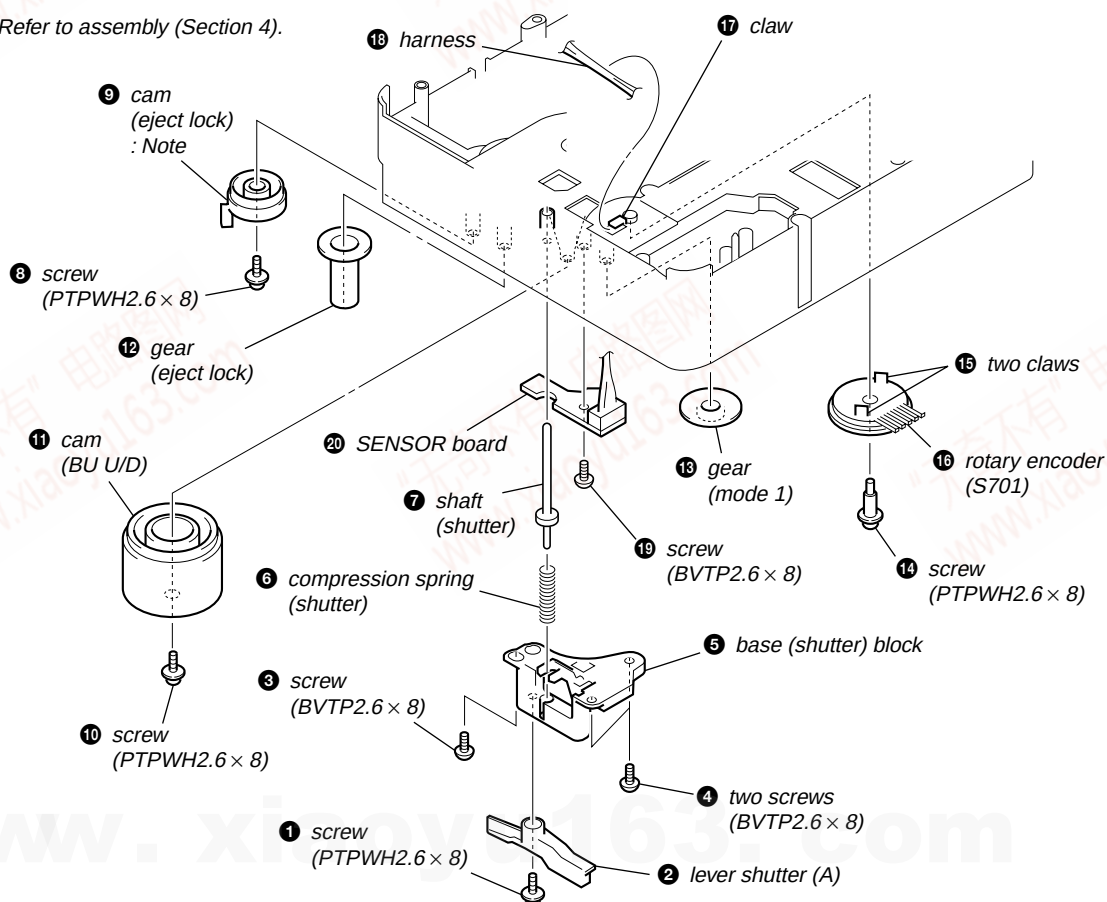
3-18. CAM (GEAR)



Note: Refer to assembly (Section 4).

3-19. SENSOR BOARD

Note: Refer to assembly (Section 4).

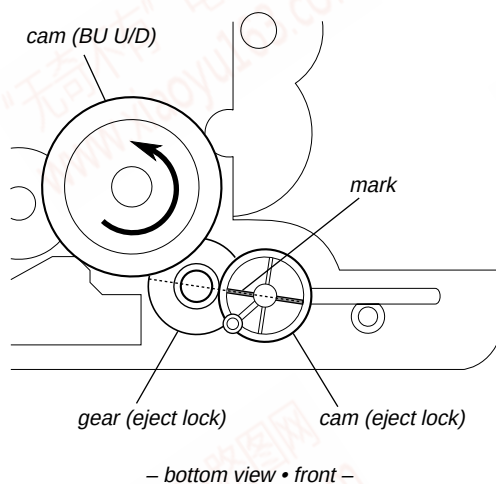


SECTION 4 ASSEMBLY

- This is can be assemble according to the following sequence.

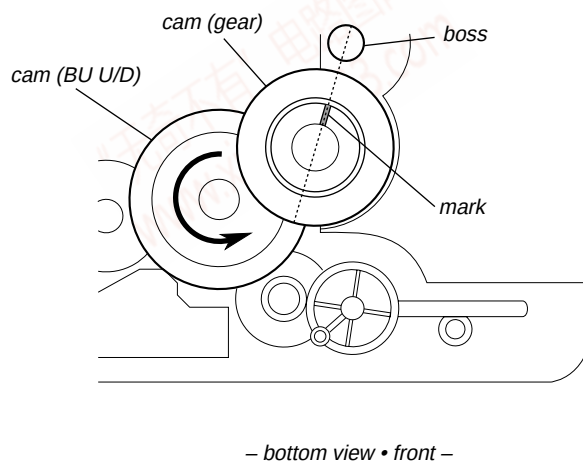
4-1. HOW TO INSTALL THE CAM (EJECT LOCK)

- ① Rotate the cam (BU U/D) fully in the direction of arrow.
- ② Engage the gear (eject lock) and the gear of the cam (eject lock) aligning the mark with the center of the gear (eject lock).



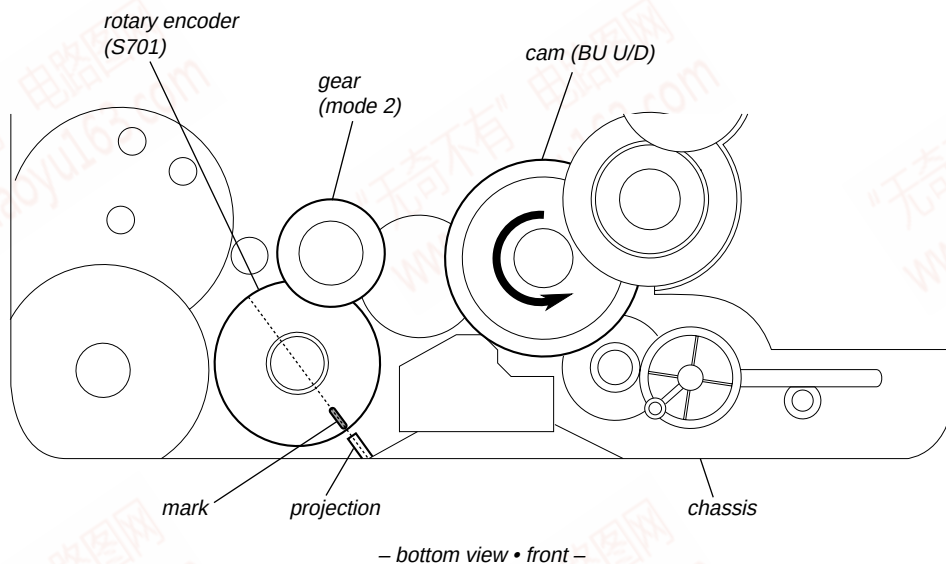
4-2. HOW TO INSTALL THE CAM (GEAR)

- ① Check that the cam (BU U/D) can not be rotated in the direction of arrow.
- ② Align the mark on the cam (gear) with the boss as shown in the figure and install the cam (gear).



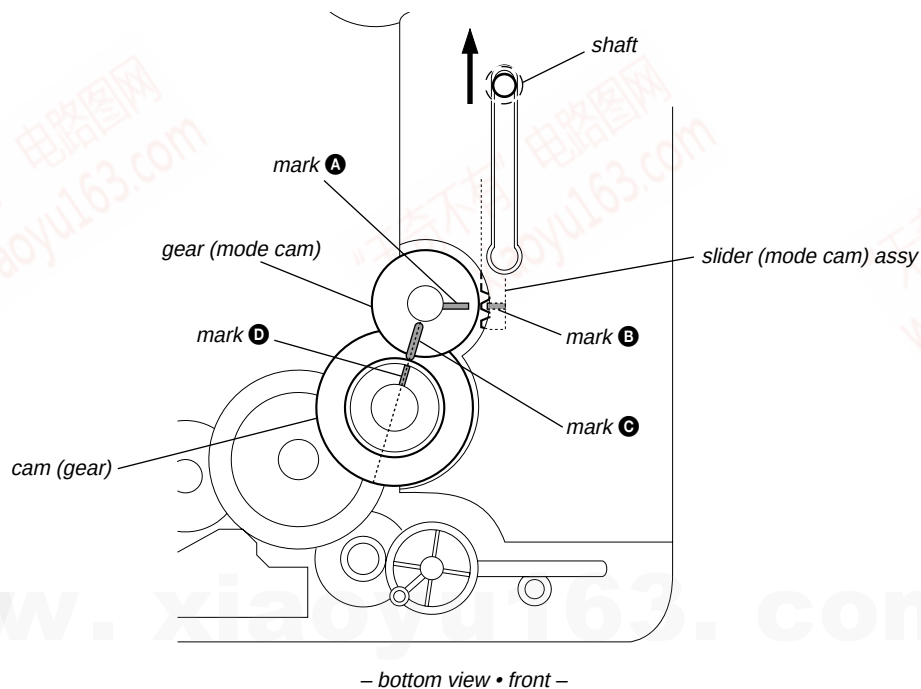
4-3. HOW TO INSTALL THE GEAR (MODE 2)

- ❶ Align the mark on the rotary encoder (S701) with the projection of the assy.
- ❷ Check that the cam (BU U/D) can not be rotated in the direction of arrow.
- ❸ Install the gear (mode 2).

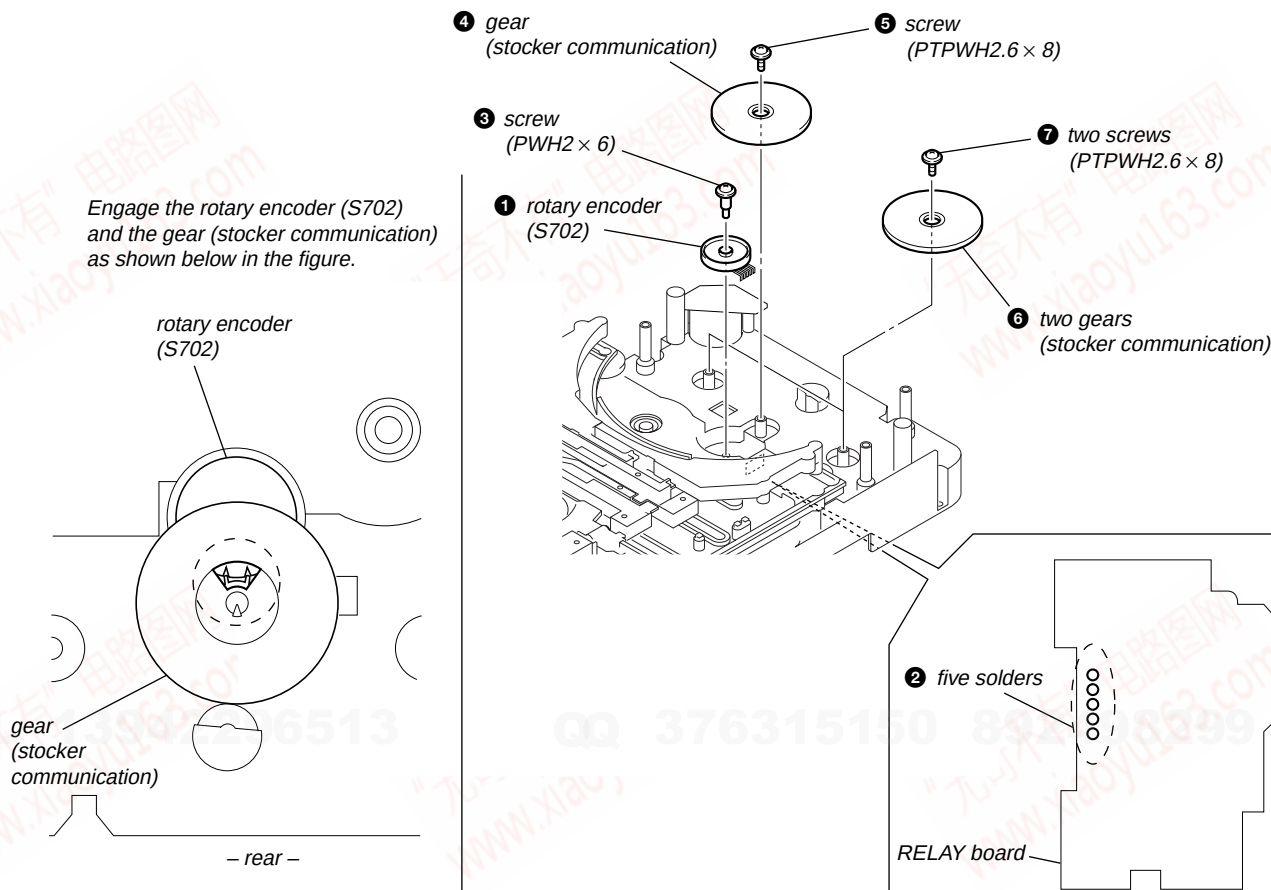


4-4. HOW TO INSTALL THE GEAR (MODE CAM)

- ❶ Slide the shaft in the direction of arrow.
- ❷ Align mark A on the gear (mode cam) with mark B on the slider (mode cam) assy, then install the gear (mode cam).
- ❸ Check that mark C on the gear (mode cam) is in alignment with mark D on the cam (gear).

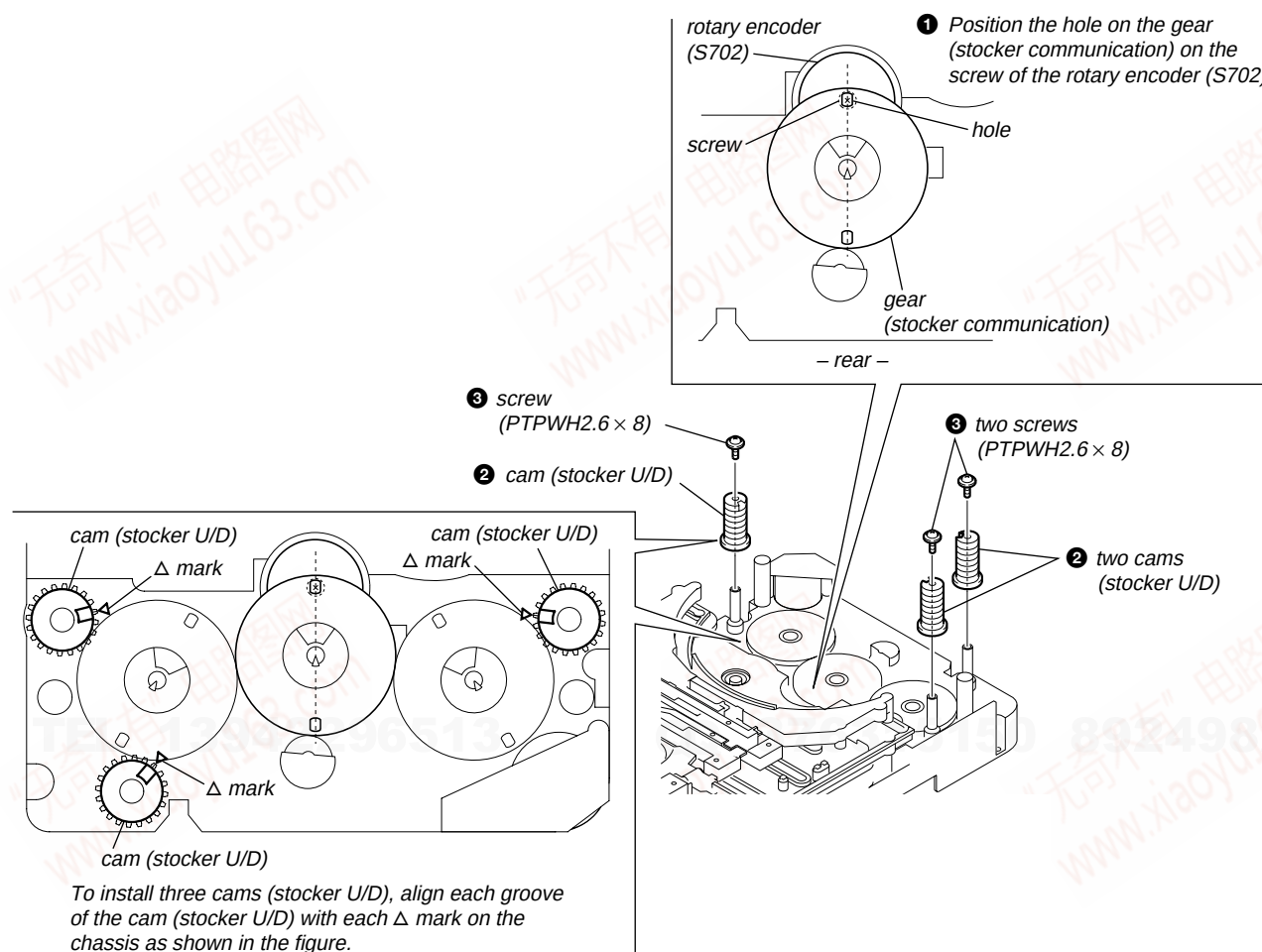


4-5. HOW TO INSTALL THE ROTARY ENCODER (S702), GEAR (STOCKER COMMUNICATION)

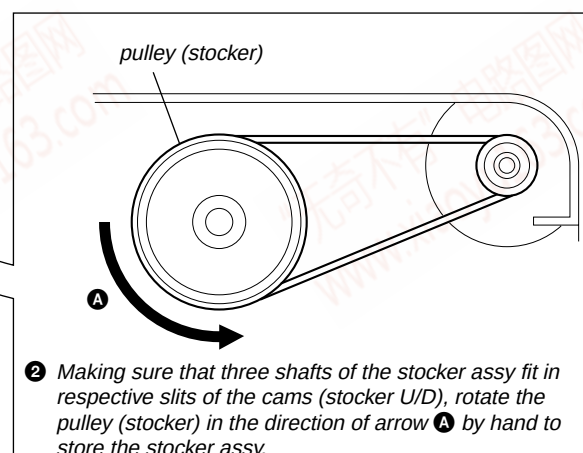
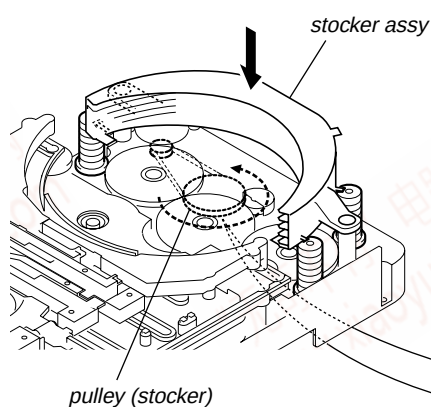
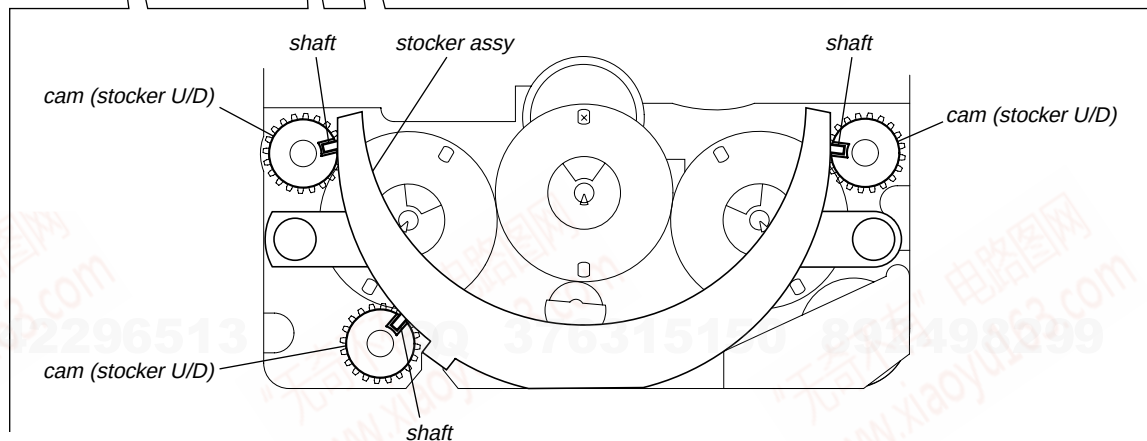
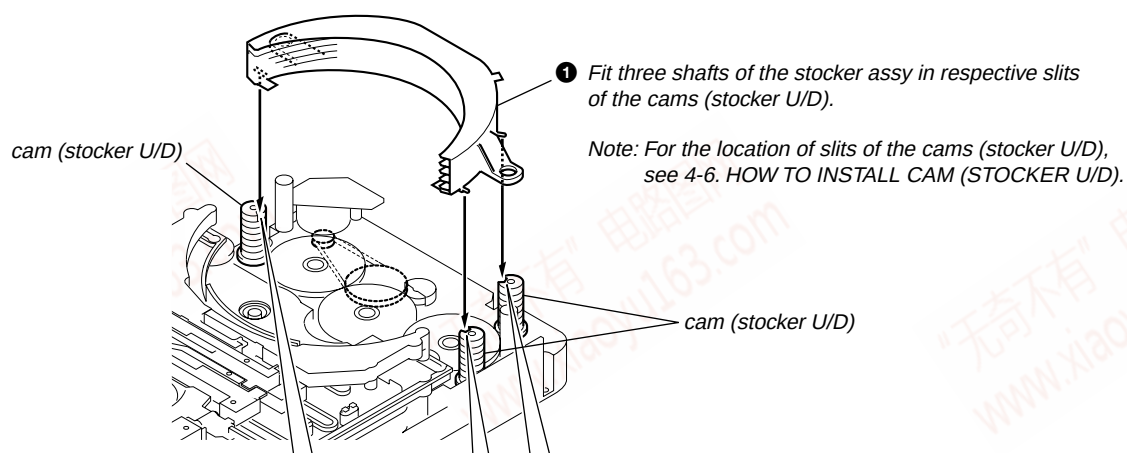


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4-6. HOW TO INSTALL THE CAM (STOCKER U/D)



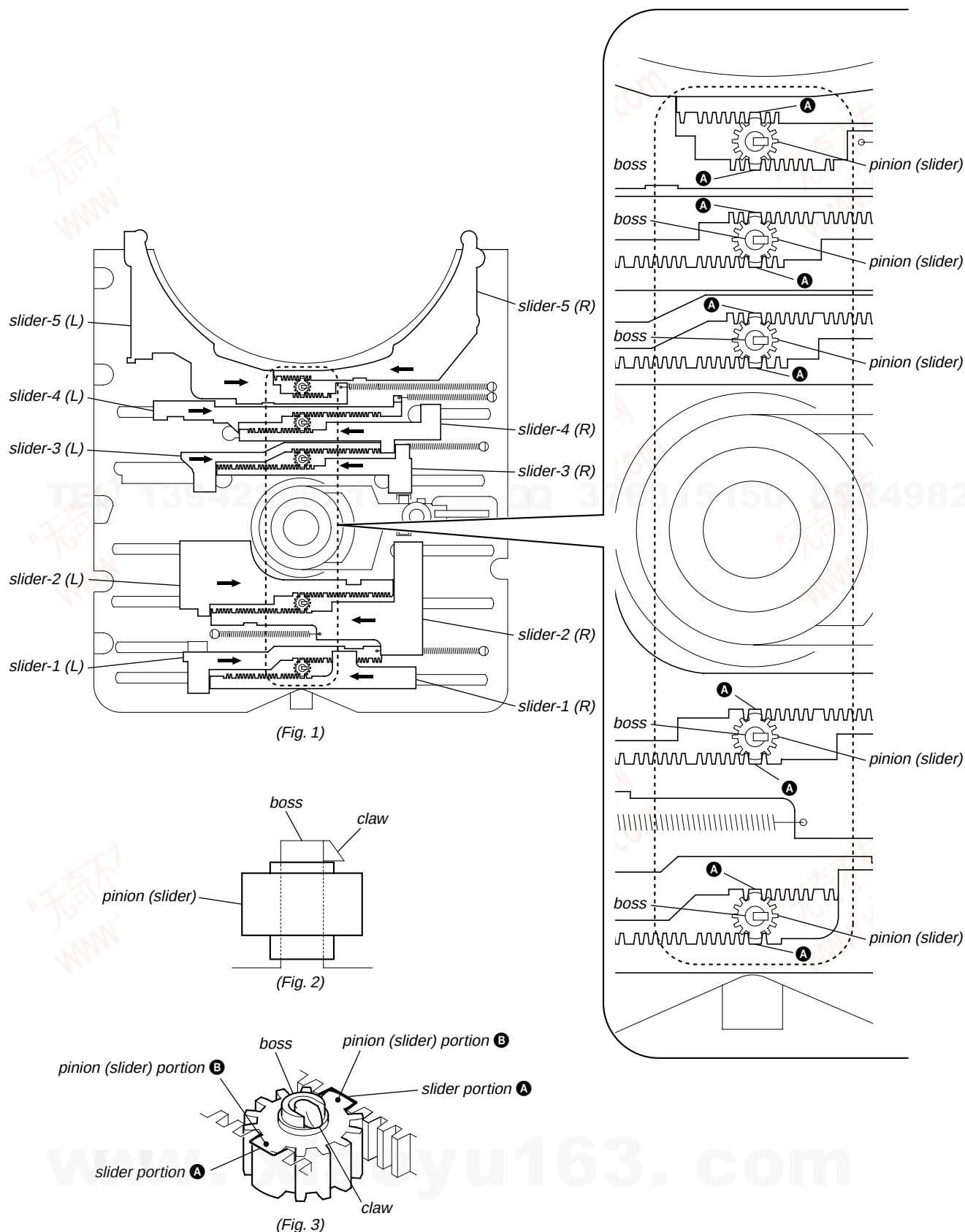
4-7. HOW TO INSTALL THE STOCKER ASSY



4-8. PHASE ADJUSTMENT BETWEEN PINIONS (SLIDER) AND SLIDER-1 TO 5 (L/R)

- ① As shown in the following figure, adjust the portion **A** of each slider to the boss with the slider-1 to 5 (L) and the slider-1 to 5 (R) pushed in the arrow directions respectively (see Fig. 1).
- ② Paying attention to the up/down direction of the pinion (slider) (see Fig. 2), install each pinion (slider) so that the portion **B** of each pinion (slider) meshes with the portion **A** of each slider (see Fig. 3).

Note: Push in the pinion (slider) until the claw of the boss comes out above the pinion (slider) to lock.



SECTION 5

TEST MODE

[Version Display Mode]

- * The software version is displayed.

Procedure:

1. Press three buttons of [VOLUME -], [VOLUME +] and [≡] simultaneously for two seconds.
2. The message "VERSION" is displayed. The version display mode is activated.
3. Press the [▶▶] button. "IF ***" is displayed.
4. Each time the [▶▶] button is pressed, the display changes in the order of DVD, AREA, VERSION and IF.
5. To exit from this mode, press the [I/O] button.

[Key Test Mode]

- * Button check

Procedure:

1. Press three buttons of [VOLUME -], [VOLUME +] and [FUNCTION] simultaneously.
2. The message "KEY NUM 0" is displayed and "0" blinks.
3. Each time a button is pressed, "KEY NUM 0" value increases. However, once a button is pressed, it is no longer taken into account.
4. When all buttons are pressed, "KEY NUM 9" appears and the number blinking is stopped.
5. To exit from this mode, disconnect the power cord.

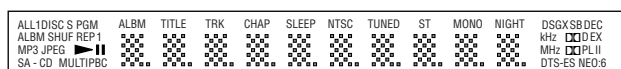
[Display Test Mode]

Procedure:

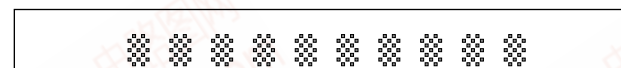
1. Press three buttons of [VOLUME -], [◀◀] and [≡] simultaneously.
2. All segments are turned on.



3. When the [▶▶] button is pressed, the display will light up as follows.



4. Press the [▶▶] button and confirm the display.



5. Press the [▶▶] button, all segments are turned off.
6. Every pressing of the [▶▶] button turns on each segments in the same order.
7. To exit from this mode, press the [I/O] button.

[Cold Reset]

- * The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customers.

Procedure:

1. Press the [I/O] button to turn the power on.
2. Press three buttons of [◀◀], [▶▶] and [≡] simultaneously.
3. When this button is operated, display as "COLD RESET" for a while and all of the settings are reset.

[Disc Slot Lock]

The disc slot lock function for the antitheft of an demonstration disc in the store is equipped.

Setting Procedure:

1. Turn the set on.
2. Press two buttons of [■] and [≡] simultaneously for five seconds.
3. The message "LOCKED" is displayed and the slot is locked.

Releasing Procedure:

1. Press two buttons of [■] and [≡] simultaneously for five seconds again.
2. The message "UNLOCKED" is displayed and the slot is unlocked.

Note: When "LOCKED" is displayed, the slot lock is not released by turning power on/off with the [I/O] button.

[Repeat Limit Release Mode]

Procedure:

1. Press three buttons of [≡], [▶▶] and [VOLUME+] simultaneously.
2. Repeat limit is released.

[CDM Ship Mode]

- * This mode moves the optical pick-up to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

1. Turn the set on.
2. Set the function to DVD.
3. Press three buttons of [▶▶], [◀◀] and [≡] simultaneously.
4. The message "MECHA LOCK" is displayed.
5. The CDM ship mode is set.

HCD-FR10W

[GENERAL DESCRIPTION]

The Test Mode allows you to make diagnosis and adjustment easily using the remote commander and monitor TV. The instructions, diagnostic results, etc. are given on the on-screen display (OSD).

[TEST DISC LIST]

Use the following test disc on test mode.

TDV-520CSO (DVD-SL) : PART No. J-2501-236-A

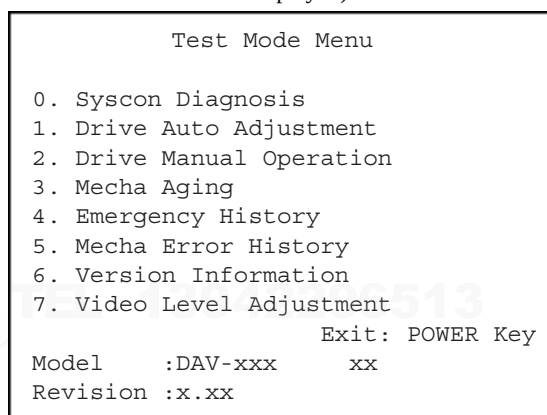
LUV-P01 (CD) : PART No. 4-999-032-01

TDV-540C (DVD-DL) : PART No. J-2501-235-A

Note: Do not use exiting test disc for DVD.

[STARTING TEST MODE]

1. Press the  button to turn the power on, and set the function to DVD.
2. Press three buttons of ,  and  simultaneously to enter the test mode.
3. It displays "SERVICE IN" on the fluorescent indicator tube, and displays the Test Mode Menu on the monitor screen as follows. (At the bottom of the menu screen, the model name and revision number are displayed)



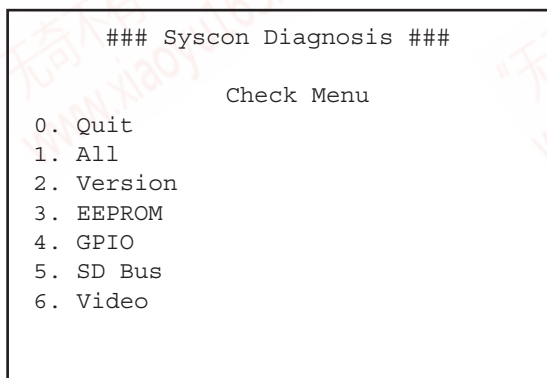
4. To execute each function, select the desired menu and press its number on the remote commander (RM-SP350).
5. To release from test mode, press the  button and turn the power off.

[OPERATING TEST MODE]

0. SYSCON DIAGNOSIS

The same contents as board detail check by serial interface can be checked from the remote commander operation.

On the Test Mode Menu screen, press  key on the remote commander, and the following Check Menu will be displayed.



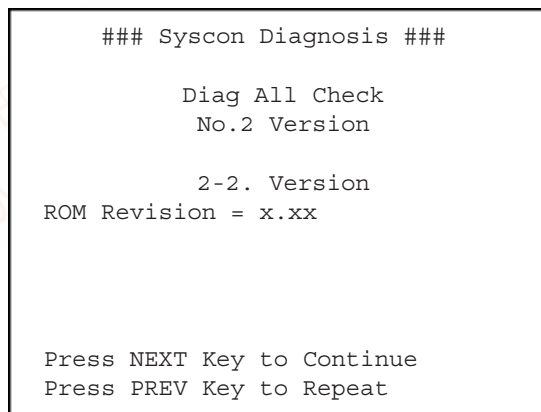
0-0. Quit

Quit the Syscon Diagnosis and return to the Test Mode Menu.

0-1. All (All items continuous check)

This menu checks all diagnostic items continuously. Normally, all items are checked successively one after another automatically unless an error is found, but at a certain item that requires judgment through a visual check to the result, the following screen is displayed for the key entry.

• Example display



For the ROM Check, the check sum calculated by the Syscon is output, and therefore you must compare it with the specified value for confirmation.

Following the message, press the  button to go to the next item, or press the  button to repeat the same operation again. To quit the diagnosis and return to Check Menu screen, press the  key on the remote commander to display Check Menu.

• Error occurred

If an error occurred, the diagnosis is suspended and error is displayed. Press the  key on the remote commander to quit the diagnosis, or press the  button to repeat the same check where an error occurred, or press the  button to continue the check from the item next to faulty item.

General Description of Checking Method

Selecting 2 and subsequent items calls the submenu screen of each item. And selecting 2 and subsequent items executes respective menus and outputs the results.

For the contents of each submenu, see "Check Items List" as below.

Check Items List:

- 0-2. Version
 - 0-2-1. All
 - 0-2-2. Revision
 - 0-2-3. ROM Check Sum
 - 0-2-4. Model Type
 - 0-2-5. Region
- 0-3. EEPROM Check
 - 0-3-1. Sampling Check
 - 0-3-2. Detail Check
- 0-4. GP I/O Check
- 0-5. SD Bus Check
- 0-6. Video Check

0-2. Version

0-2-2. Revision

The revision number of ROM (IC205) that the program for the DVD system processor (IC206) is stored.

0-2-3. ROM Check Sum

Check sum is calculated. (4 digits hexadecimal number)

- 0-2-4. Model Type
Model name is displayed. (DAV-FR10W)
- 0-2-5. Region
Model destination code is displayed. (2 digits number)

0-3. EEPROM Check

- 0-3-1. Sampling Check
EEPROM check at every 64 words.
It compares read data with write data of each address.
When there are discrepancies between two data, it displays error.
- 0-3-2. Detail Check
EEPROM check at every 1 word.
It compares read data with write data of each address.
When there are discrepancies between two data, it displays error.

0-4. GP I/O Check

Pull up/down setting check of the DVD system processor (IC206) pin 150, 151 and 154 (for clock setting port).

0-5. SD Bus Check

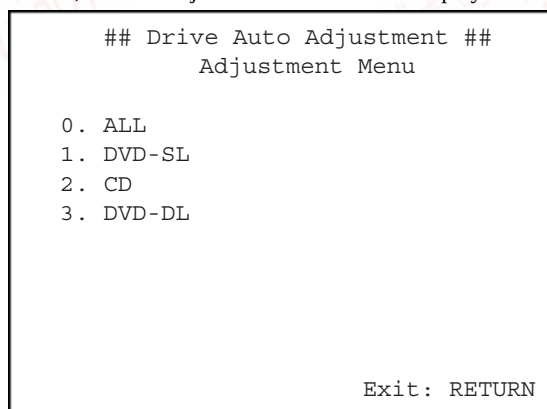
SD bus data check between DVD decoder (IC701) and D-RAM (IC706).

0-6. Video Check

Output the color bars for video level adjustment.

1. DRIVE AUTO ADJUSTMENT

On the Test Mode Menu screen, press the [1] key on the remote commander, and the Adjustment Menu will be displayed.



Normally, [0] is selected to adjust DVD (single layer), CD and DVD (dual layer) in this order. But, individual items can be adjusted for the case where adjustment is suspended due to an error. In this mode, the adjustment can be made easily through the operation following the message displayed on the screen.

The disc used for adjustment must be the one specified for adjustment.

1-0. ALL

Press the [0] key on the remote commander, and the servo set data in EEPROM will be initialized. Then, 1. DVD-SL disc, 2. CD disc and 3. DVD-DL disc are adjusted in this order.

Each time one disc was adjusted, it is ejected. Replace it with the specified disc following the message. You can finish the adjustment by pressing the [RETURN] button on the remote commander.

Note: During adjustment of each disc, the measurement for disc type judgment is made. As automatic adjustment does not judge the disc type unlike conventional models, take care not to insert wrong type discs. Also, do not give a shock during adjustment.

1-1. DVD-SL (single layer)

Press the [1] key on the remote commander and insert a DVD single layer disc following the message. Then the adjustment will be made through the steps below, then adjusted values will be written to the EEPROM.

DVD Single Layer Disc Adjustment Steps:

1. Sled tilt reset
2. Disc check memory SL
3. Wait 300 msec
4. Set disc type SL
5. LD on
6. Spindle start
7. Wait 1 sec
8. Focus servo on 0
9. Auto track offset adjust
10. CLVA on
11. Wait 500 msec
12. Tracking on
13. Wait 1 sec
14. Sled on
15. Check CLV on
16. Auto LFO adjust
17. Auto focus offset adjust
18. Auto tilt position adjust
19. Auto focus gain adjust
20. Auto focus offset adjust
21. EQ boost adjust
22. Auto loop filter offset adjust
23. Auto track gain adjust
- Search Check
24. 32 track jump forward
25. 32 track jump reverse
26. 500 track jump forward
27. 500 track jump reverse
28. All servo stop
29. EEP copy loop filter offset

1-2. CD

Press the [2] key on the remote commander and insert a CD disc following the message. Then the adjustment will be made through the steps below, then adjusted values will be written to the EEPROM.

CD Adjustment Steps

1. Sled tilt rest
2. Disc check memory CD
3. Wait 500 msec
4. Set disc type CD
5. LD on
6. Spindle start
7. Wait 500 msec
8. Focus servo on 0
9. Auto track offset adjust
10. CLVA on
11. Wait 500 msec
12. Tracking on
13. (TC display start)
14. Wait 1 sec
15. Jitter display start
16. Sled ON
17. Check CLV on
18. Auto loop filter offset adjust
19. Auto focus offset adjust
20. Auto focus gain adjust
21. Auto focus offset adjust
22. EQ boost adjust
23. Auto LFO Adjust

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24. Auto track gain adjust

Search Check

25. 32Tj forward
26. 32Tj reverse
27. 500Tj forward
28. 500Tj reverse
29. All servo stop

1-3. DVD-DL (dual layer)

Press the [3] key on the remote commander and insert a DVD dual layer disc following the message. Then the adjustment will be made through the steps below, then adjusted values will be written to the EEPROM.

DVD Dual Layer Disc Adjustment Steps:

1. Sled tilt reset
2. Disc check memory DL
3. Wait 500 msec
4. Set disc type DL
5. LD on
6. Spindle start
7. Wait 1 sec
- Layer 1 Adjust
 8. Focus servo on 0
 9. Auto track offset adjust
 10. CLVA on
 11. Wait 500 msec
 12. Tracking on
 13. Wait 500 msec
 14. Sled on
 15. Check CLV lock
 16. Auto loop filter offset adjust, Auto focus adjust
 17. Auto focus gain adjust
 18. Auto focus offset adjust
 19. EQ boost adjust
 20. Auto loop filter offset adjust
 21. Auto Track Gain Adjust
- Search Check
 22. 32 track jump forward
 23. 32 track jump reverse
 24. 500 track jump forward
 25. 500 track jump reverse

Layer 0 Adjust

26. Focus jump (L1 → L0)
27. Auto track offset adjust L0
28. CLVA on
29. Wait 500 msec
30. Tracking on
31. Wait 500 msec
32. Sled on
33. Check CLV lock
34. Auto focus filter offset adjust
35. Auto Focus Adjust
36. Auto focus gain adjust
37. Auto focus offset adjust
38. EQ boost adjust
39. Auto Loop Filter Offset
40. Auto track gain adjust

Search Check

41. 32 track jump forward
42. 32 track jump reverse
43. 500 track jump forward
44. 500 track jump reverse

Layer Jump Check

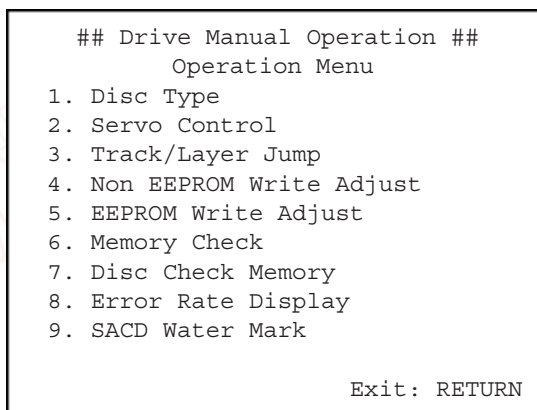
45. Layer jump (L0 → L1)
46. Layer jump (L1 → L0)

47. All servo stop

2. DRIVE MANUAL OPERATION

Note: This mode is used for design, and not used in service fundamentally.

On the Test Mode Menu screen, press the [2] key on the remote commander, and the Operation Menu will be displayed. For the manual operation, each servo on/off control and adjustment can be executed manually.



In using the manual operation menu, take care of the following points. These commands do not provide protection, thus requiring correct operation. The sector address or time code field is displayed when a disc is loaded.

Note:

1. Set correctly the disc type to be used on the Disc Type screen.
2. In case of an alarm, immediately press the [■] button to stop the servo operation, and press the [I/⏻] button to turn the power off.

Basic operation:

(controllable from front panel or remote commander)

- | | |
|-----------------|--|
| [I/⏻] | : Power OFF (release the Test Mode) |
| [■] | : Servo stop |
| [▲] | : Stop and eject |
| [RETURN] | : Return to Operation Menu or Test Mode Menu |
| [◀▶] | : Transition between sub modes of menu |
| [1] to [9], [0] | : Selection of menu items |
| Cursor [↓]/[↑] | : Increase/Decrease in manually adjusted value |

2-1. Disc Type

```

Disc Type

Disc Type Select

1. Disc Type Auto Check
2. Set Disc Type DVD
3. Set Disc Type CD
4. Set Disc Type Hybrid

Exit: RETURN
    
```

2-1-1. Disc Type Auto Check

- 1) Press the **[1]** key on the remote commander to display the Disc Type Auto Check screen.
- 2) Insert a disc and press the **[ENTER]** key on the remote commander.
- 3) It judges the type of inserted disc automatically and displays the disc type and so on as below.

```

Disc Type Auto Check

Disc Type   xx
Layer       xx
Mirr Time   xx
Mirr Count  xx
FZC Count   xx
PI Reference xx
PI Peak     xx

ENTER.Execute

Exit: RETURN
    
```

Disc Type : CD, DVD or Hybrid (SACD)
 Layer : SINGLE, DUAL or HYBRID
 Mirr Time : Mirror time of between disc surface and record surface when disc type judgment. (hexadecimal number)
 Mirr Count : The number of times which mirror counts between disc surface and record surface when disc type judging. (hexadecimal number)
 FZC Count : The number of times which focus zero cross points of each layer when lens down. (hexadecimal number)
 PI Reference : The average of PI reference voltage. (hexadecimal number)
 PI Peak : PI peak level voltage. It performs only when disc type judgment is successful. (hexadecimal number)

2-1-2. Disc Type DVD

It sets up so that it may judge as a disc type of specification of the disc with which the set was inserted.

- [1]**: DVD single layer disc (12 cm)
- [2]**: DVD dual layer disc (0 layer, 12 cm)
- [3]**: DVD dual layer disc (1 layer, 12 cm)
- [4]**: DVD-RW disc (12 cm)
- [5]**: DVD single layer disc (8 cm)
- [6]**: DVD dual layer disc (0 layer, 8 cm)
- [7]**: DVD dual layer disc (1 layer, 8 cm)

2-1-3. Disc Type CD

It sets up so that it may judge as a disc type of specification of the disc with which the set was inserted.

- [1]**: CD disc (normal speed, 12 cm)
- [2]**: CD disc (double speed, 12 cm)
- [3]**: CD disc (normal speed, 8 cm)
- [4]**: CD disc (double speed, 8 cm)
- [5]**: CD-RW disc (normal speed, 12 cm)
- [6]**: CD-RW disc (double speed, 12 cm)
- [7]**: CD-RW disc (normal speed, 8 cm)
- [8]**: CD-RW disc (double speed, 8 cm)

2-1-4. Disc Type Hybrid

It sets up so that it may judge as a disc type of specification of the disc with which the set was inserted.

- [1]**: SACD Hybrid disc (SACD layer, 12 cm)
- [2]**: SACD Hybrid disc (CD layer, normal speed, 12 cm)
- [3]**: SACD Hybrid disc (CD layer, double speed, 12 cm)
- [4]**: SACD Hybrid disc (SACD layer, 8 cm)
- [5]**: SACD Hybrid disc (CD layer, normal speed, 8 cm)
- [6]**: SACD Hybrid disc (CD layer, double speed, 8 cm)

2-2. Servo Control

Note: Be sure to perform the disc type setup before performing this item.

```

Servo Control

1.LD          off R.Sled FWD
2.Focus        off L.Sled REV
3.SPDL         off U.Sled Reset
4.CLVA         off D.Sled Limit
5.Trk.         off
6.Sled         off
7.Fcs.Srch     off

0.All Servo Off

Exit: RETURN
    
```

On this screen, the servo on/off control necessary for replay is executed. Normally, turn on each servo from 1 sequentially and when CLVA is turned on, the usual trace mode becomes active. In the trace mode, DVD sector address or CD time code is displayed. This is not displayed where the spindle is not locked. The spindle could run overriding the control if the spindle system is faulty or RF is not present. In such a case, do not operate CLVA.

- [1]** LD : Turn on/off the laser.
- [2]** Focus : Search the focus and turn on the focus.
- [3]** SPDL : Turn on/off the spindle.
- [4]** CLVA : Turn on/off normal servo of spindle servo.
- [5]** Trk. : Turn on/off the tracking servo.
- [6]** Sled : Turn on/off the sled servo.
- [7]** FCS. Srch : Turn on/off the focus search.
- [8]** FCS. OppL : Turn on/off the focus search to another layer of designated layer in Disc Type setting. (dual layer disc only)
- [0]** : All servo off.
- [→]** Sled FWD (right cursor) : Move the sled forward.
- [←]** Sled REV (left cursor) : Move the sled reverse.
- [↑]** Sled FWD (up cursor) : Reset the sled.
- [↓]** Sled REV (down cursor) : Limit in the sled.

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2-3. Track/Layer Jump

Track/Layer Jump			
1.	1Tj	FWD R.Lj	L0>L1
2.	1Tj	REV L.Lj	L1>L0
3.	500Tj	Fine FWD U.Fj	L0>L1
4.	500Tj	Fine REV D.Fj	L1>L0
5.	10kTj	Dirc FWD	
6.	10kTj	Dirc REV	
7.	20kTj	Dirc FWD	
8.	20kTj	Dirc REV	
0. All Servo Off			
Exit: RETURN			

On this screen, track jump, etc. can be performed. Only for the DVD dual layer disc, the focus jump and layer jump are displayed in the right field

- [1] 1Tj FWD : 1 track jump forward.
- [2] 1Tj REV : 1 track jump reverse.
- [3] 500Tj FWD : 500 track jump (fine search) forward.
- [4] 500Tj REV : 500 track jump (fine search) reverse.
- [5] 10kTj FWD : 10k track jump (direct search) forward.
- [6] 10kTj REV : 10k track jump (direct search) reverse.
- [7] 20kTj FWD : 20k track jump (direct search) forward.
- [8] 20kTj REV : 20k track jump (direct search) reverse.
- [0] : All servo off.

2-4. Non EEPROM Write Adjust

Non EEPROM Write Adjust			
1.	Focus	Offset	
2.	Focus	Gain	
3.	Trk.	Offset Coarse	
4.	Trk.	Offset Fine	
5.	Trk.	Gain	
6.	EQ	Boost	
0. All Servo Off			
Exit: RETURN			

On this screen, each item can be adjusted manually. Select the desired number [1] to [0] from the remote commander, and current setting for the selected item will be displayed, then increase or decrease numeric value with the [↑] key or [↓] key. This value is stored in the EEPROM. If CLV has been applied, the jitter is displayed for reference for the adjustment.

- [1] Focus Offset : Adjusts focus offset.
- [2] Focus Gain : Adjusts focus gain.
- [3] TRK. Offset : Adjusts tracking offset of the RF amp (IC001) side.
- [4] TRK. Offset : Adjusts tracking offset of the DSP (IC401) side.
- [5] TRK. Gain : Adjusts track gain.
- [6] EQ Boost : Adjusts amount of boost of equalizer.
- [0] : All servo off.

2-5. EEPROM Write Adjust

EEPROM Write Adjust			
1.	Focus	Offset	
2.	Focus	Gain	
3.	Trk.	Offset Coarse	
4.			
5.	Trk.	Gain	
6.	EQ	Boost	
0. All Servo Off			
Exit: RETURN			

On this screen, each item can be adjusted automatically. Select the desired number [1] to [0] from the remote commander, and selected item is adjusted automatically.

- [1] Focus Offset : Adjusts focus offset.
- [2] Focus Gain : Adjusts focus gain.
- [3] TRK. Offset : Adjusts tracking offset of the RF amp (IC001) side.
- [5] TRK. Gain : Adjusts track gain.
- [6] EQ Boost : Adjusts amount of boost of equalizer.
- [0] : All servo off.

2-6. Memory Check

Display images are shown as follows, and all two screens are able to switch by the [↑] key (UP) or [↓] key (DW).

EEPROM Data 1/2	CD	SL	L0	L1
Focus Gain	xx	xx	xx	xx
Trk. Gain	xx	xx	xx	xx
Focus Offset	xx	xx	xx	xx
Trk. Offset	xx	xx	xx	xx
EQ. Boost	xx	xx	xx	xx
PI Level	xx	xx	--	--
Fcs. Balance	--	xx	--	--
Jitter	xx	xx	xx	xx
Mirror Time	xx	xx	xx	--
FE Level	--	xx	--	--
Traverse Lvl.	--	xx	--	--
Next:DW Default:CLR		Exit:RET		

EEPROM Data 2/2	CDRW	DVDRW
Focus Gain	xx	xx
Trk. Gain	xx	xx
Focus Offset	xx	xx
Trk. Offset	xx	xx
EQ. Boost	xx	xx
Prev:UP Default:CLR		Exit:RET

On this screen, current servo adjusted data stored in the EEPROM are displayed. The adjusted data are initialized by pressing the [CLEAR] key, but be careful that they are not recoverable after initialization.

Before clearing the adjusted data, make a note of the set data. This screen will also appear if [0]-All is selected in the Drive Auto Adjustment. In this case, default setting cannot be made.

2-7. Disc Check Memory

```

Disc Check Memory

1. SL Disc check
2. CD Disc check
3. DL Disc check

Exit: RETURN
    
```

On this screen, measure the mirror time of chucked disc, and write to the EEPROM.

2-8. Error Rate Display

```

Error Rate Display
      UC   CR Address
PI1 Err Now xx xxxx xxxxxxxx
      Max xx xxxx xxxxxxxx
      Avg xx xxxx
PI2 Err Now xx xxxx xxxxxxxx
      Max xx xxxx xxxxxxxx
      Avg xx xxxx
PO  Err Now xx xxxx xxxxxxxx
      Max xx xxxx xxxxxxxx
      Avg xx xxxx

Start: ENTER      Exit: RETURN
    
```

On this screen, measure and display the error rate.

UC : Incorrect value

CR : Correct value

2-9. SACD Water Mark Check

```

SACD Water Mark Check

PSP AMP
PSN

Start: ENTER      Exit: RETURN
    
```

On this screen, measure the PSP AMP value and PSN value of SACD water mark.

3. EMERGENCY HISTORY

On the Test Mode Menu screen, selecting [4] displays the information such as servo emergency history.

The history information from last 1 up to 10 can be scrolled with the [↑] key or [↓] key. Also, specific information can be displayed by directly entering that number with ten keys.

```

### EMG. History ###

Laser Hours   CD   xxxhxxm
DVD           xxxhxxm

a. bb xx xx xx  xx xx xx xx
   xx xx xx xx  xx xx xx xx

a. bb xx xx xx  xx xx xx xx
   xx xx xx xx  xx xx xx xx

Select:1-9      Scroll:UP/DOWN
(1.Latest EMG.) Exit: RETURN
    
```

xxxxhxxm : The laser on total hours. Data below minutes are omitted.

a. : Error number.

bb : Error code.

xx : Not used.

• Clearing History Information

Clearing laser hours:

Press the [DVD DISPLAY] and [CLEAR] keys in this order.
Then both CD and DVD data are cleared.

Clearing emergency history:

Press the [DVD TOP MENU] and [CLEAR] keys in this order.

Initializing set up data:

Press [DVD MENU] and [CLEAR] keys in this order.

The data have been initialized when "EEPROM Initialize Finished." message is displayed. The EMG. History screen will be restored soon.

• Code list of Emergency History

- 10: Communication to RF AMP (IC001) failed.
- 11: Each servo for focus, tracking, and spindle is unlocked.
- 12: Check sum error of EEPROM (IC203).
- 14: Communication to servo DSP (IC401) failed, or servo DSP (IC401) is faulty.
- 15: Communication to DVD decoder (IC701) failed, or DVD decoder (IC701) is faulty.
- 16: Communication to DSD decoder (IC801) failed, or DSD decoder (IC801) is faulty.
- 20: Initialization of sled servo failed. It is not placed in the initial position.
- 23: Sled servo operation error.
- 24: Made a request to move the sled servo to wrong position.
- 30: Tracking balance adjustment error.
- 31: Tracking gain adjustment error.
- 33: Focus bias adjustment error.
- 34: Focus gain adjustment error.
- 35: Equalizer adjustment error.
- 40: Focus servo does not operate.
- 41: With a DVD dual layer disc, focus jump failed.
- 50: CLV (spindle) servo does not operate.
- 51: Spindle does not stop.
- 60: Made a request to seek nonexistent address.
- 61: Seek error of retry more than regulated times.
- 70: Control data could not be read.
- 80: Disc reading failed.

HCD-FR10W

4. MECHA ERROR HISTORY

On the Test Mode Menu screen, selecting [5] displays the information of mechanism deck error history.

The history information from last 1 up to 8 can be scrolled with the  key or  key. Also, specific information can be displayed by directly entering that number with ten keys.

```

### Mecha Error History ###

1. aa bb cc dd xx xx xx xx
2. aa bb cc dd xx xx xx xx
3. aa bb cc dd xx xx xx xx
4. aa bb cc dd xx xx xx xx
5. aa bb cc dd xx xx xx xx
6. aa bb cc dd xx xx xx xx
7. aa bb cc dd xx xx xx xx
8. aa bb cc dd xx xx xx xx

                                Scroll:UP/DOWN
(1.Latest Err.)                Exit: RETURN

```

aa : The error in the midst of initializing the mechanism deck.
bb : The error in the midst of loading operation.
cc : The error in the midst of up/down the stocker.
dd : The error in the midst of switching the mechanism deck mode.
xx : Not used.

- Error code (aa)

FF : Complete the initializing. (normal operation)
11 : Stocker movement (to chucking position) failing in the midst of initializing the mechanism deck.
12 : Stocker movement (to chucking position) failing in the midst of initializing the mechanism deck.
1x : Initializing the mechanism deck.
2x : Initializing the mechanism deck.
3x : Initializing the mechanism deck.
41 : Disc eject failing in the midst of initializing the mechanism deck.
4x : Initializing the mechanism deck.
50 : Disc eject failing in the midst of initializing the mechanism deck.
5x : Initializing the mechanism deck.
A2 : Disc eject failing in the midst of initializing the mechanism deck.
Ax : Initializing the mechanism deck.
D3 : Disc eject failing in the midst of initializing the mechanism deck.
Dx : Initializing the mechanism deck.
Ex : Initializing the mechanism deck.

- Error code (bb)

00 : Initializing the mechanism deck.
10 : Retry over of eject and loading.
30 : Open operation in no disc status.
60 : Retry over of eject and loading.
70 : Disc is chucking position.
81 : Retry failed of disc movement from chucking position to stocker.
83 : Retry preparation failed of disc movement from chucking position to stocker.
90 : Disc is stored in the stocker.
A1 : Retry failed of disc movement from stocker to chucking position.
A3 : Retry preparation failed of disc movement from stocker to chucking position.
B0 : Just before the release operation.
B1 : Retry failed of the release operation.

- Error code (cc)

10 : Under a stop.
22 : Retry preparation failed.
23 : Retry failed.

- Error code (dd)

10 : Under a stop.
22 : Retry preparation failed.
23 : Retry failed.

5. VERSION INFORMATION

On the Test Mode Menu screen, selecting [6] displays the ROM version and region code.

The parenthesized hexadecimal number in version field is checksum value of ROM.

```

## Version Information ##

IF con.      Ver.x. xx

SYScon.      Ver.x. xx (xxxx)
              Model   DAV-xxx
              Region  0x
              Config  xxxxxxxx

Front End Ver.x.xx

                                Exit: RETURN

```

IF con. : The version of system controller (IC901).
SYScon. : The version of DVD system processor (IC206).
Front End : The version of mechanism controller (IC301).

6. VIDEO LEVEL ADJUSTMENT

On the Test Mode Menu screen, selecting [7] displays color bars for video level adjustment. During display of color bars, OSD disappears but the menu screen will be restored if pressing the  key.

SECTION 6 ELECTRICAL ADJUSTMENT

[TEST DISC LIST]

Use the following test disc on test mode.

TDV-520CSO (DVD-SL) : PART No. J-2501-236-A

LUV-P01 (CD) : PART No. 4-999-032-01

TDV-540C (DVD-DL) : PART No. J-2501-235-A

Note: Do not use exiting test disc for DVD.

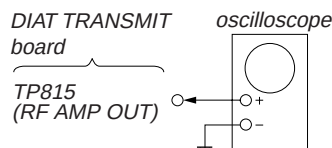
AUTO SERVO ADJUSTMENT

After parts related to the servo circuit (RF amplifier (IC001), DSP (IC401), motor driver (IC501), EEPROM (IC302) so on) and optical pick-up (DBU-1) are replaced, re-adjusting the servo circuit is necessary. Select "ALL" at "1. DRIVE AUTO ADJUSTMENT" (Refer to page 25 in TEST MODE) and adjust DVD-SL (single layer), CD and DVD-DL (dual layer).

DIAT SIGNAL RF LEVEL ADJUSTMENT

This adjustment is performed in order to adjust the transmission distance of RF signal for DIAT communication.

Connection:



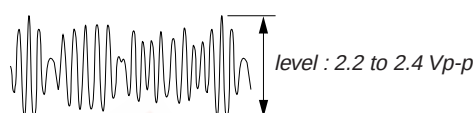
Procedure:

1. Connect the oscilloscope to TP815 (RF AMP OUT) and GND on the DIAT TRANSMIT board.
2. Connect DIR-T1 to DIR-T1 jack (J301).
3. Adjust RV801 on the DIAT TRANSMIT board so that the center of waveform becomes 1.0 Vp-p.
4. Confirm trigger is locked.
5. Adjust RV801 on the DIAT TRANSMIT board so that the center of waveform becomes 2.2 to 2.4 Vp-p.

RF Signal Reference Waveform

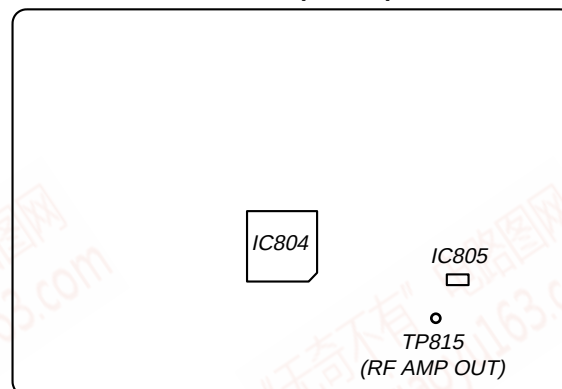
VOLT/DIV : 500 mV

TIME/DIV : 500 ns



Adjustment Location:

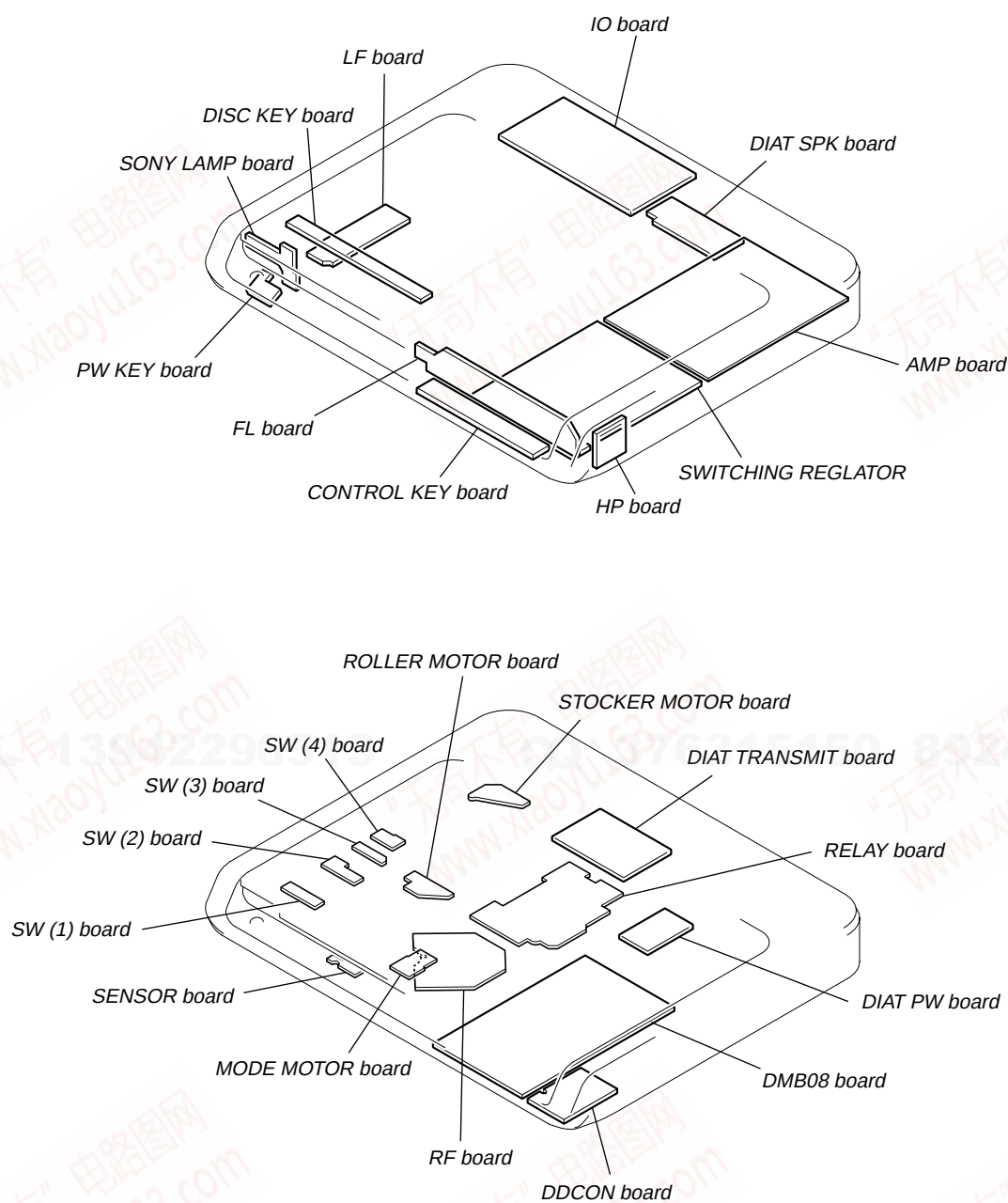
- DIAT TRANSMIT Board (SIDE A) -



HCD-FR10W

SECTION 7 DIAGRAMS

• Circuit Boards Location



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For schematic diagrams.

Note:

- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- Δ : internal component.
- $\square$: panel designation.

Note:

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- — : B+ Line.
- - - - : B- Line.
- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages and waveforms are dc with respect to ground in service mode.
- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- no mark : DVD STOP
- * : Impossible to measure
- Circled numbers refer to waveforms.
- Signal path.
 -  : AUDIO
 -  : CD PLAY
 -  : DVD PLAY
 -  : TUNER
 -  : VIDEO
 -  : OPTICAL DIGITAL IN
 -  : CHROMA
 -  : Y
 -  : COMPONENT VIDEO
 -  : AUX IN
 -  : SACD PLAY
 -  : R, G, B

For printed wiring boards.

Note:

-  : parts extracted from the component side.
 -  : Through hole.
 -  : Pattern from the side which enables seeing.
- (The other layers' patterns are not indicated.)

Caution:

Pattern face side: Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: Parts on the parts face side seen from the parts face are indicated.

- Indication of transistor.

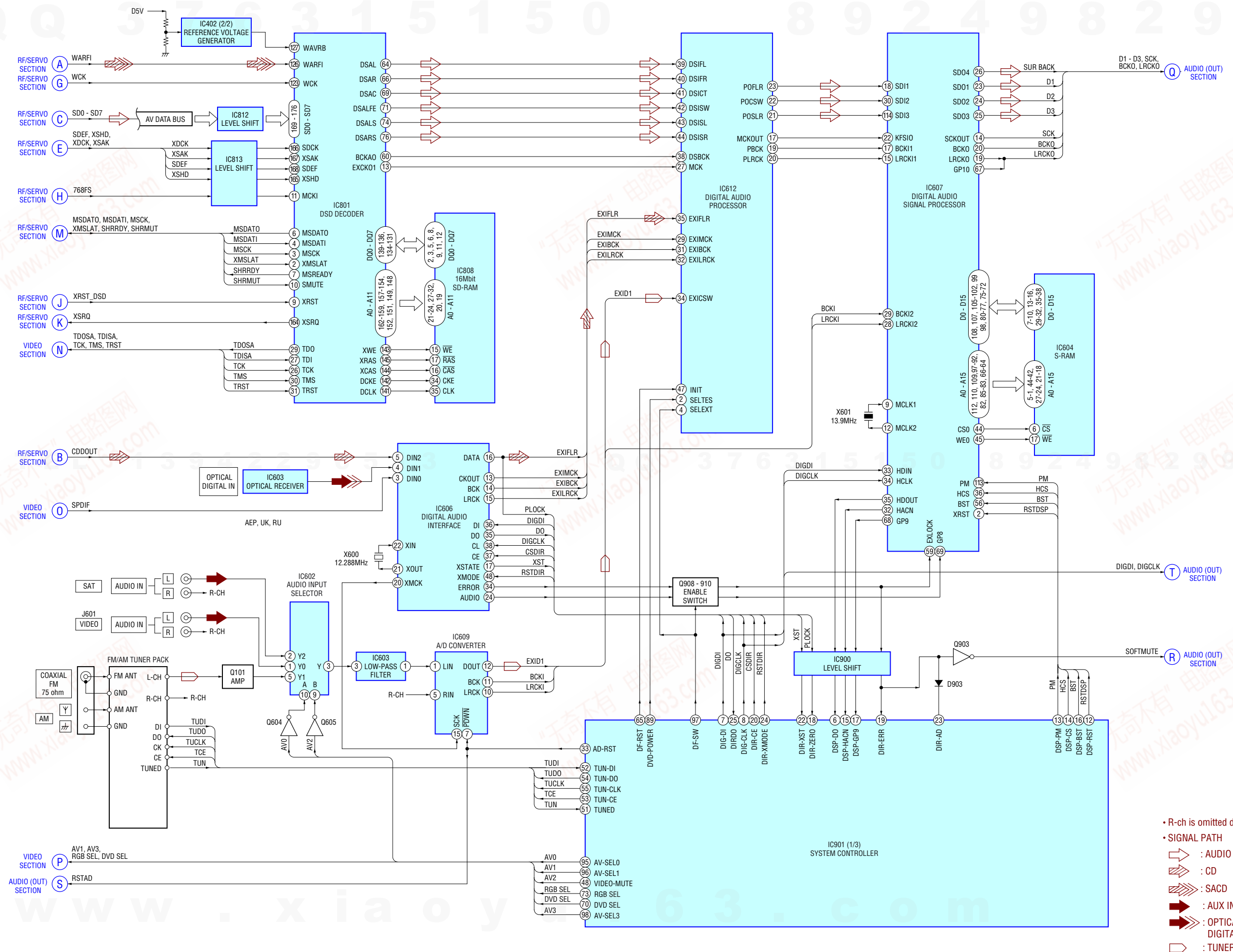


MEMO

The diagram shows two parallel data paths, WARFI and CDDOUT, with red arrow markers indicating specific data points. The WARFI path has markers at positions 5, 1, 5, 0, 8, 2, 4, 9, and 8. The CDDOUT path has markers at positions 8, 2, 4, 9, and 8. The paths are labeled WARFI and CDDOUT, and the output sections are labeled AUDIO(DSP) SECTION (A) and AUDIO(DSP) SECTION (B).



7-2. BLOCK DIAGRAM — AUDIO (DSP) SECTION —



• R-ch is omitted due to same as L-ch.

• SIGNAL PATH

→ : AUDIO

→ : CD

→ : SACD

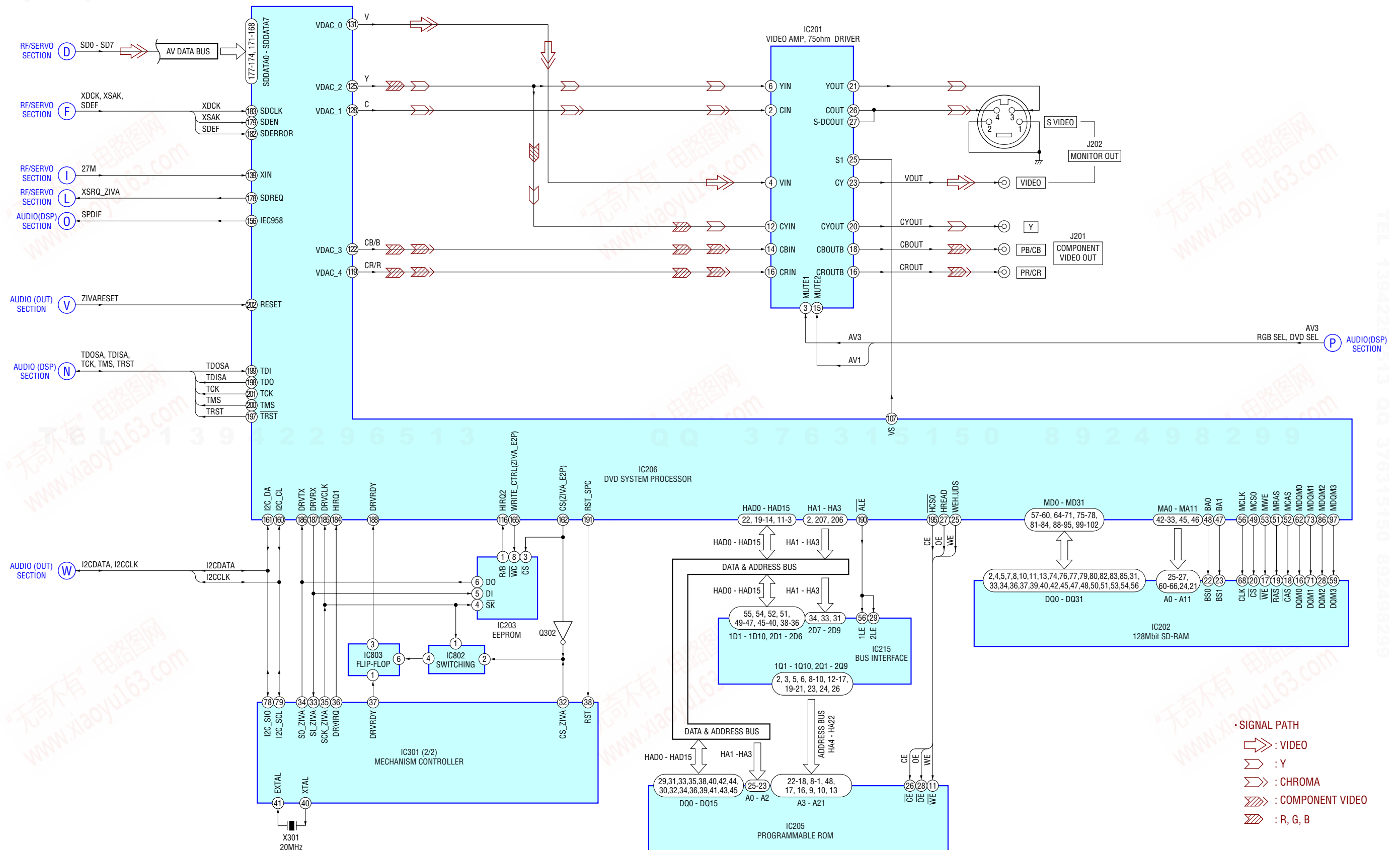
→ : AUX IN

→ : OPTICAL DIGITAL IN

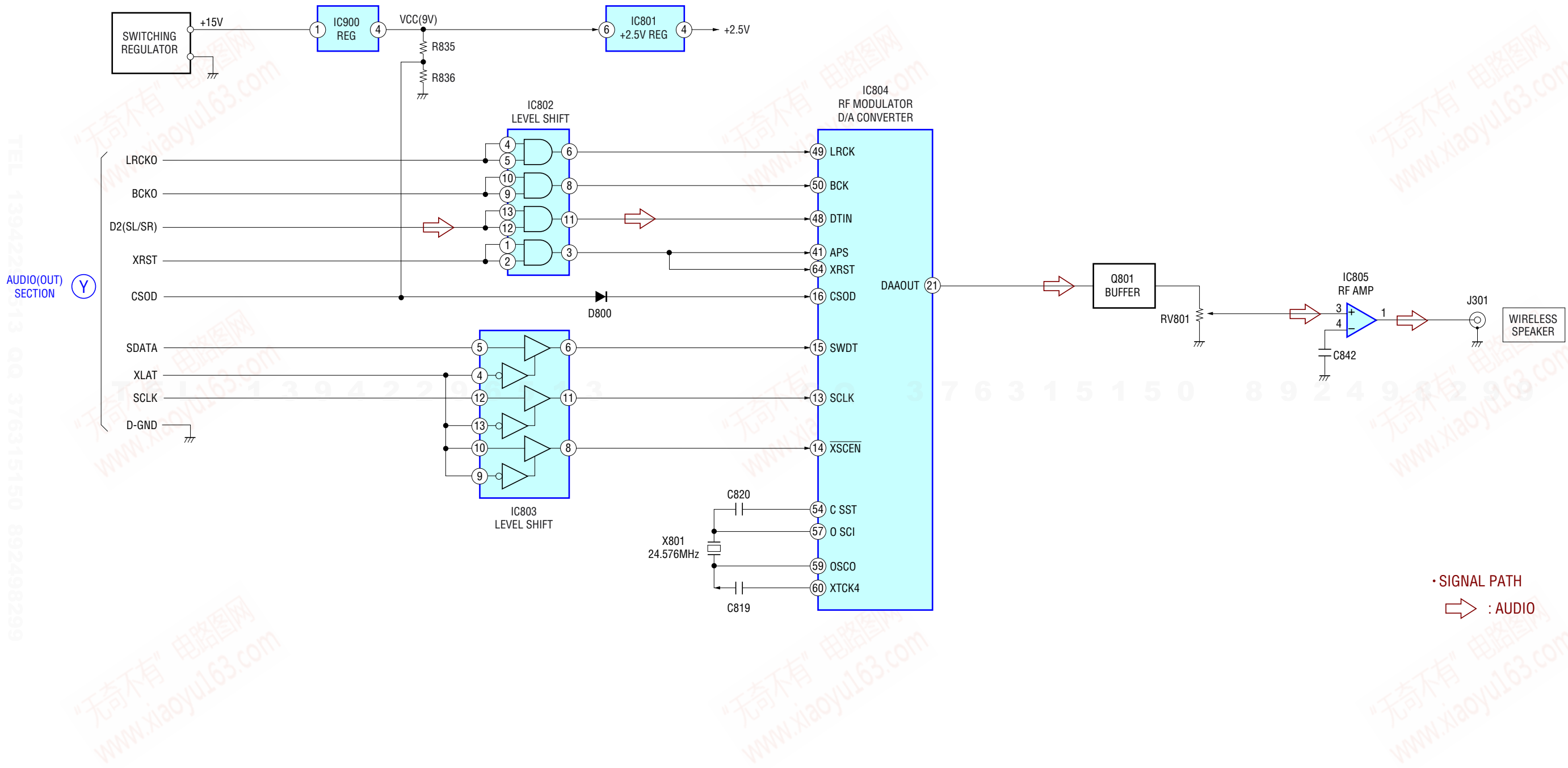
→ : TUNER

➡ : AUDIO

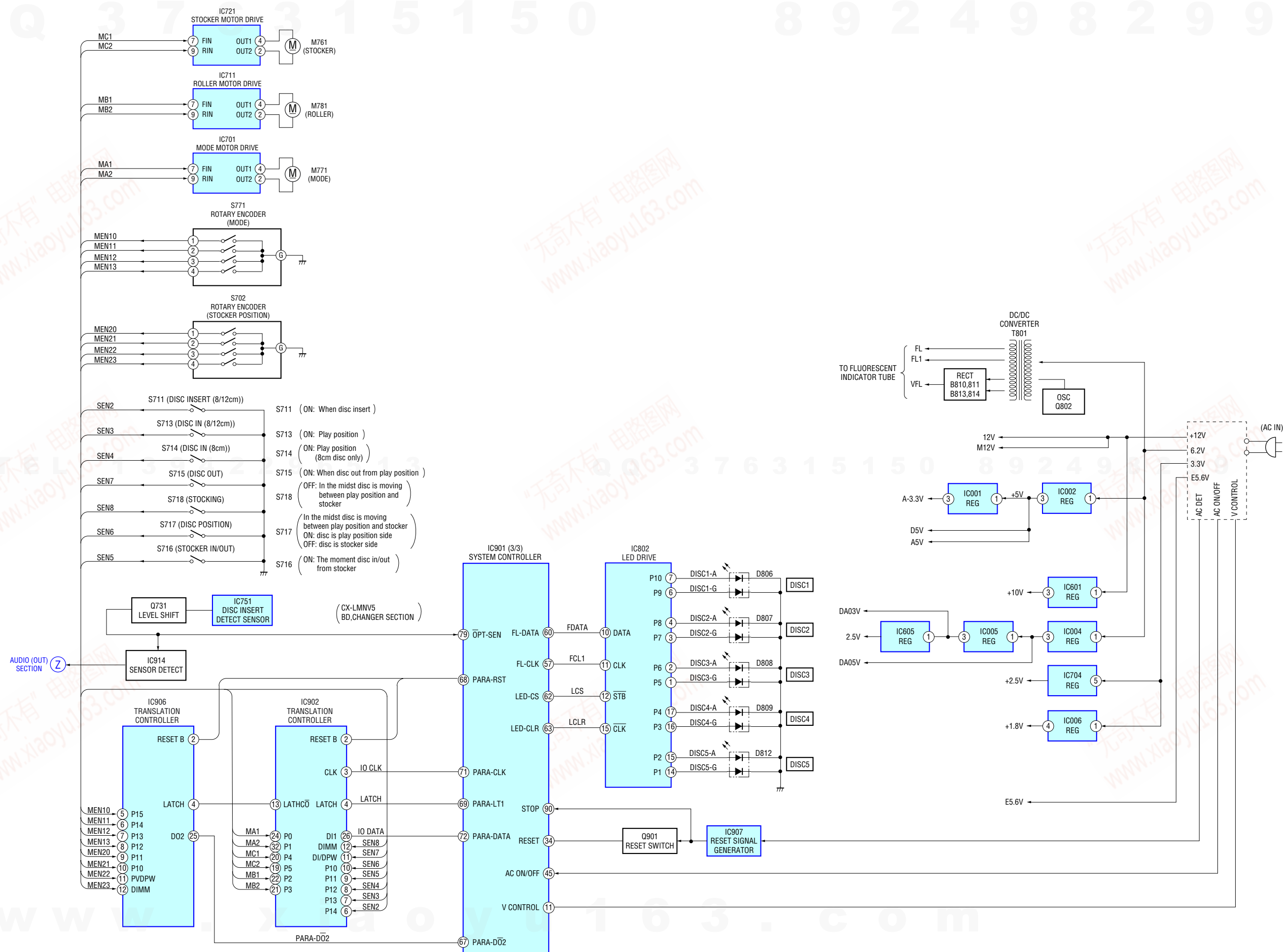
7-4. BLOCK DIAGRAM — VIDEO SECTION —

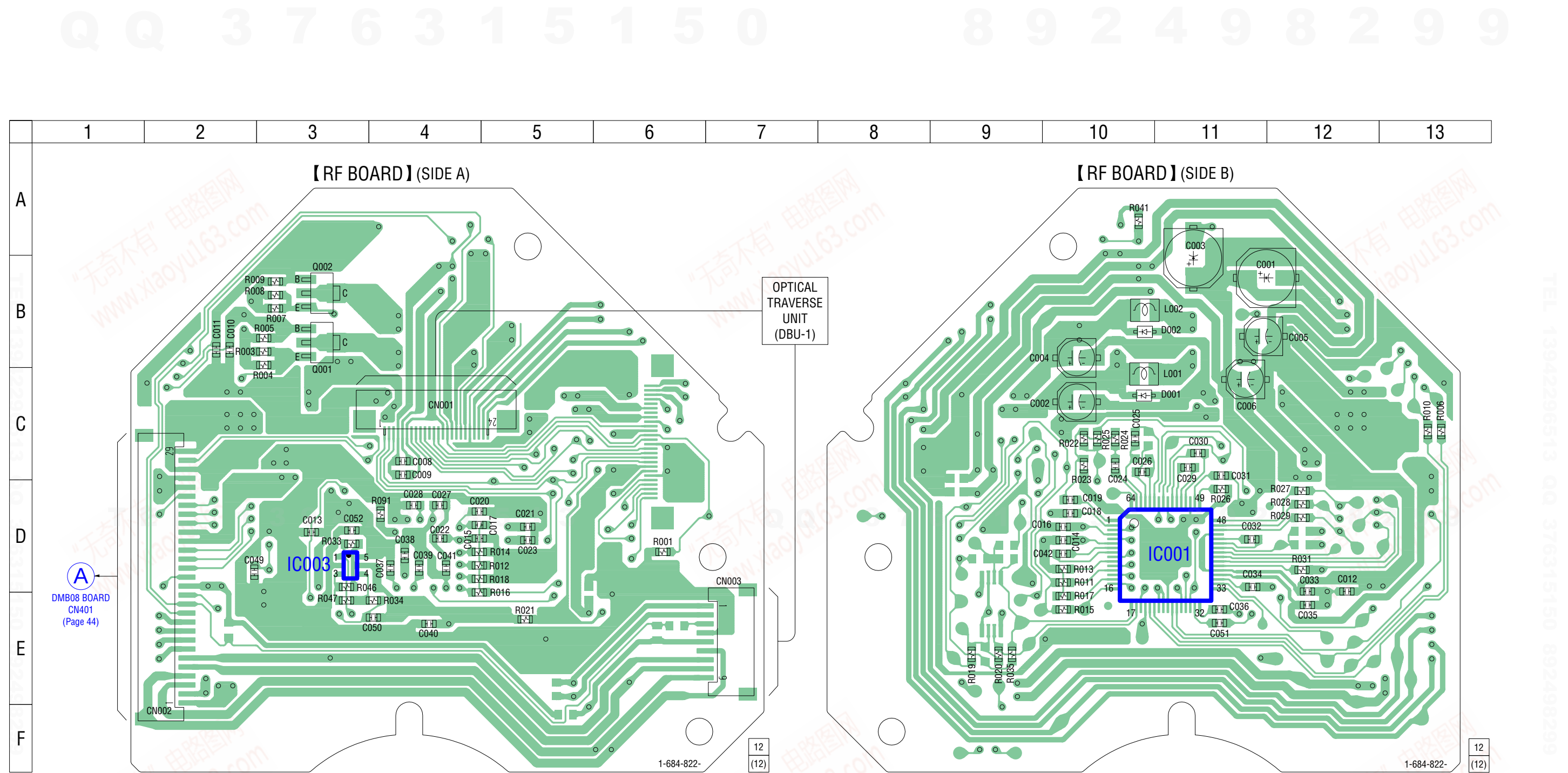


7-5. BLOCK DIAGRAM — DIAT TRANSMIT SECTION —



7-6. BLOCK DIAGRAM — POWER SECTION —

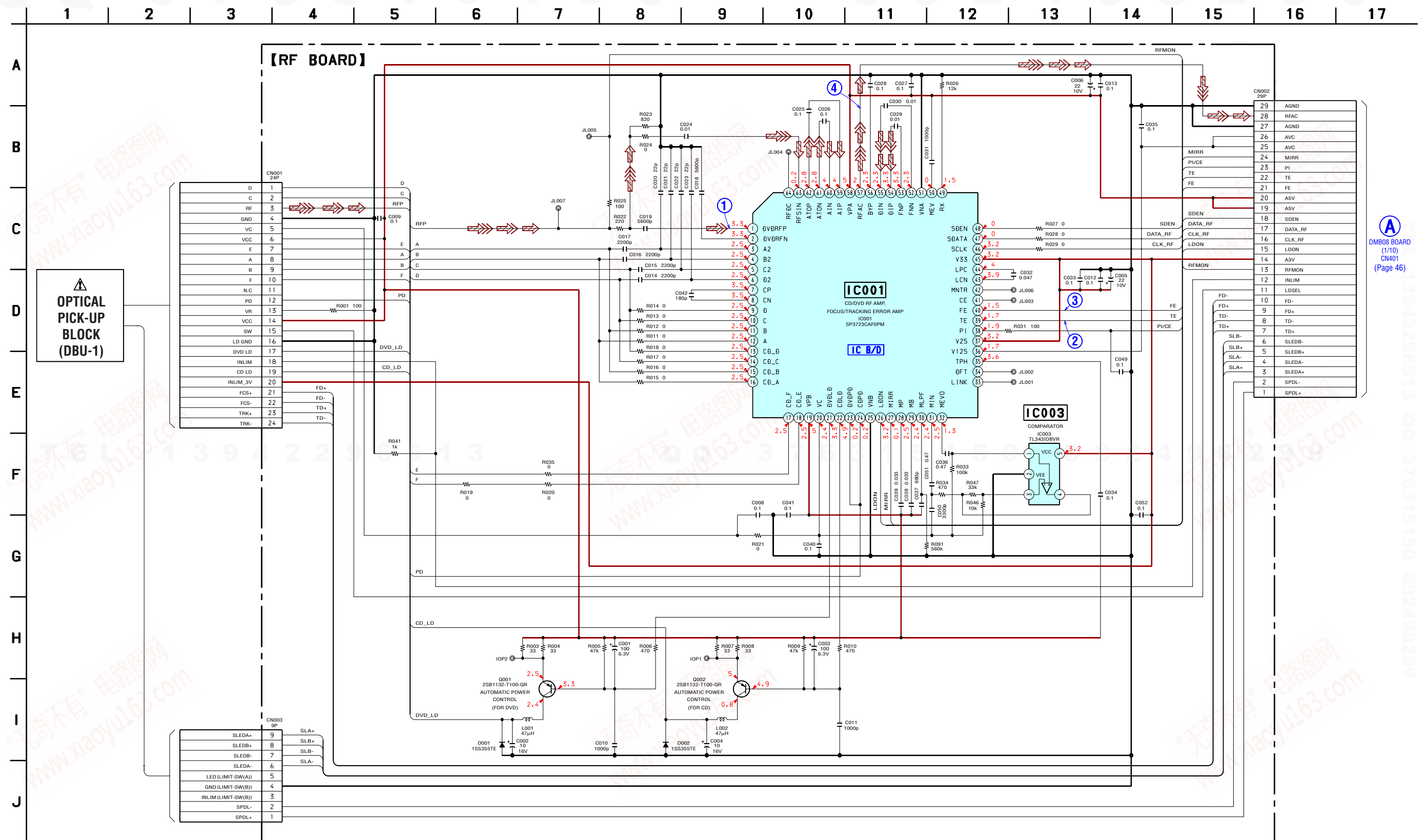




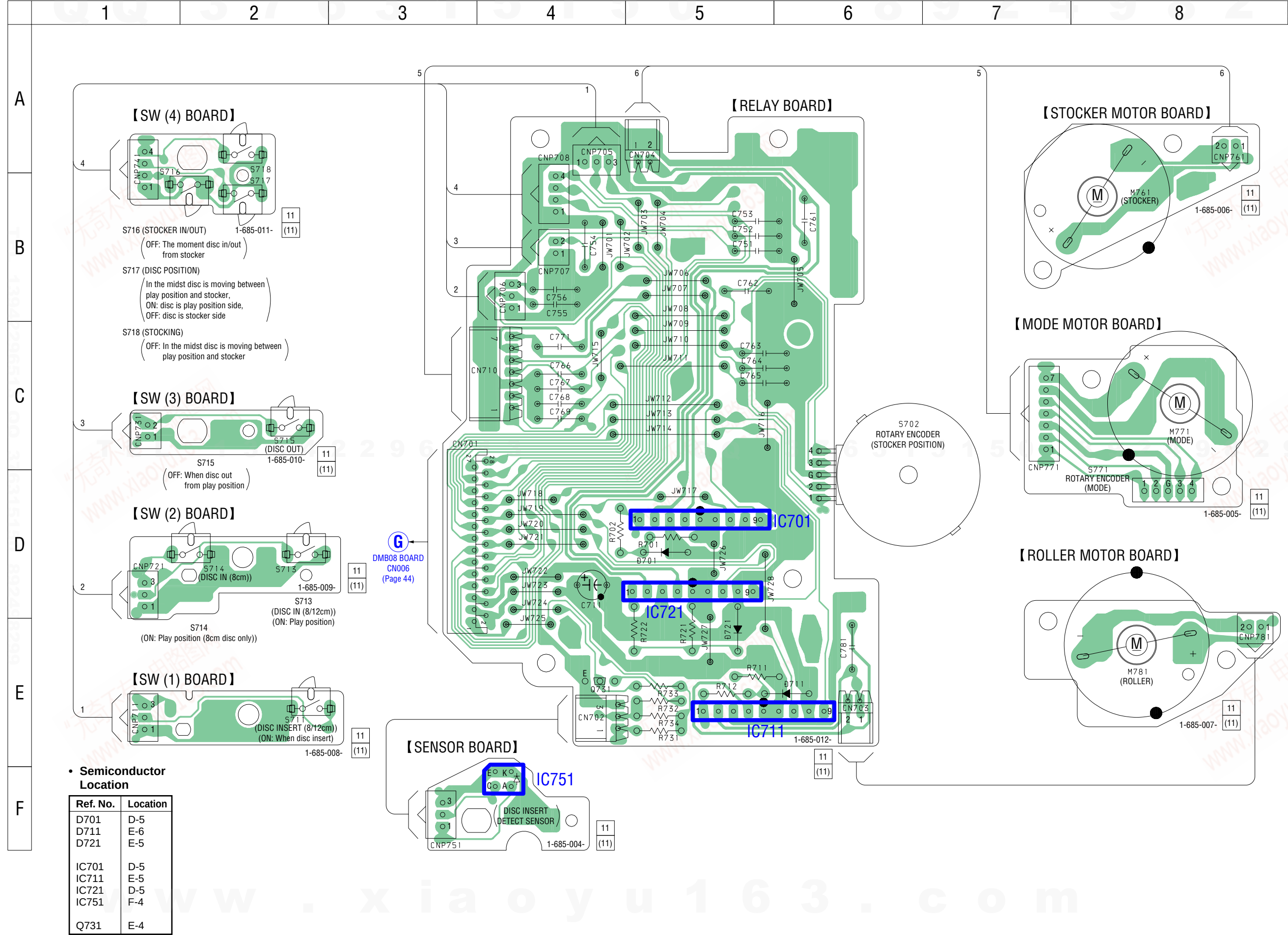
• Semiconductor Location

Ref. No.	Location
D001	C-10
D002	B-10
IC001	D-11
IC003	D-3
Q001	B-3
Q002	B-3

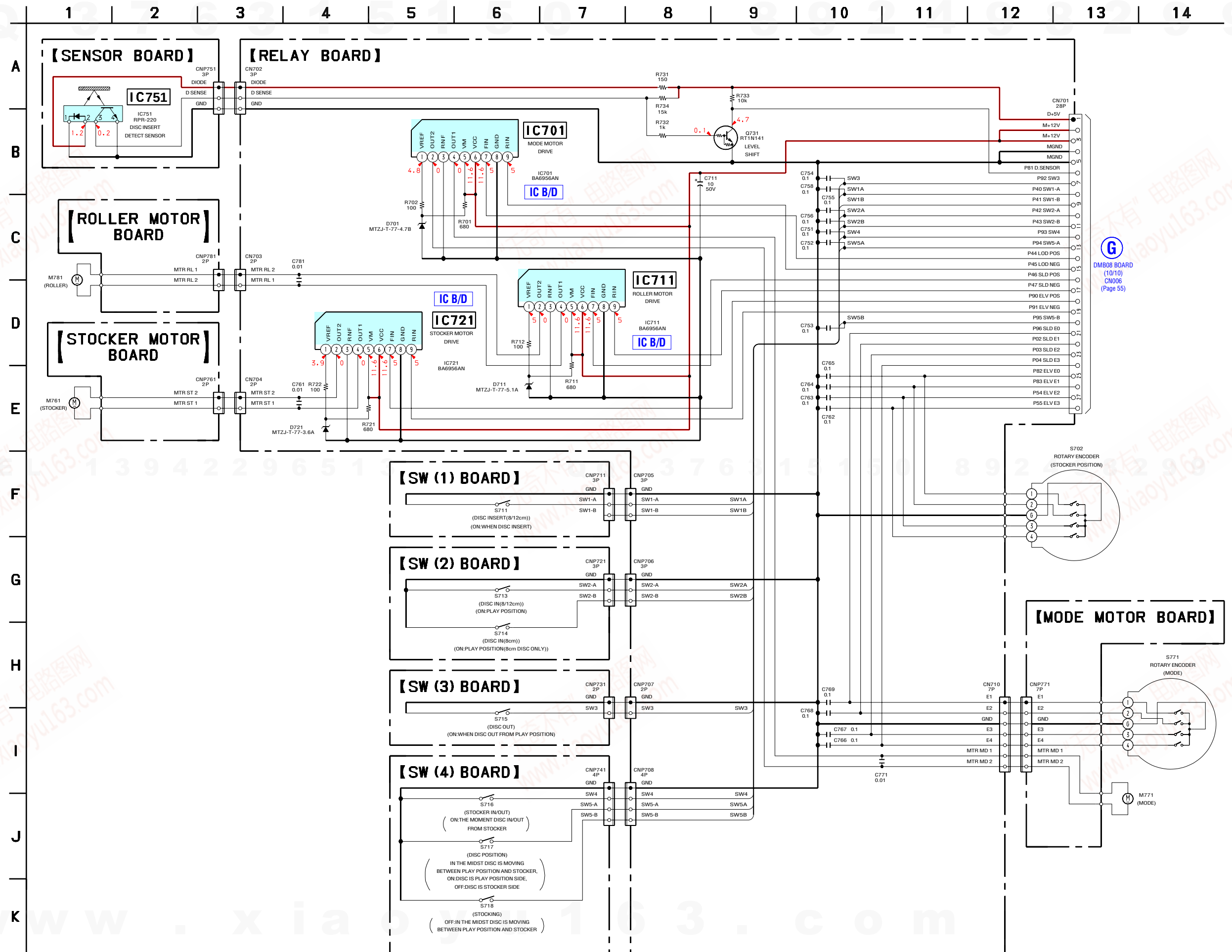
7-8. SCHEMATIC DIAGRAM — RF BOARD — • See page 75 for Waveforms. • See page 86 for IC Block Diagrams.

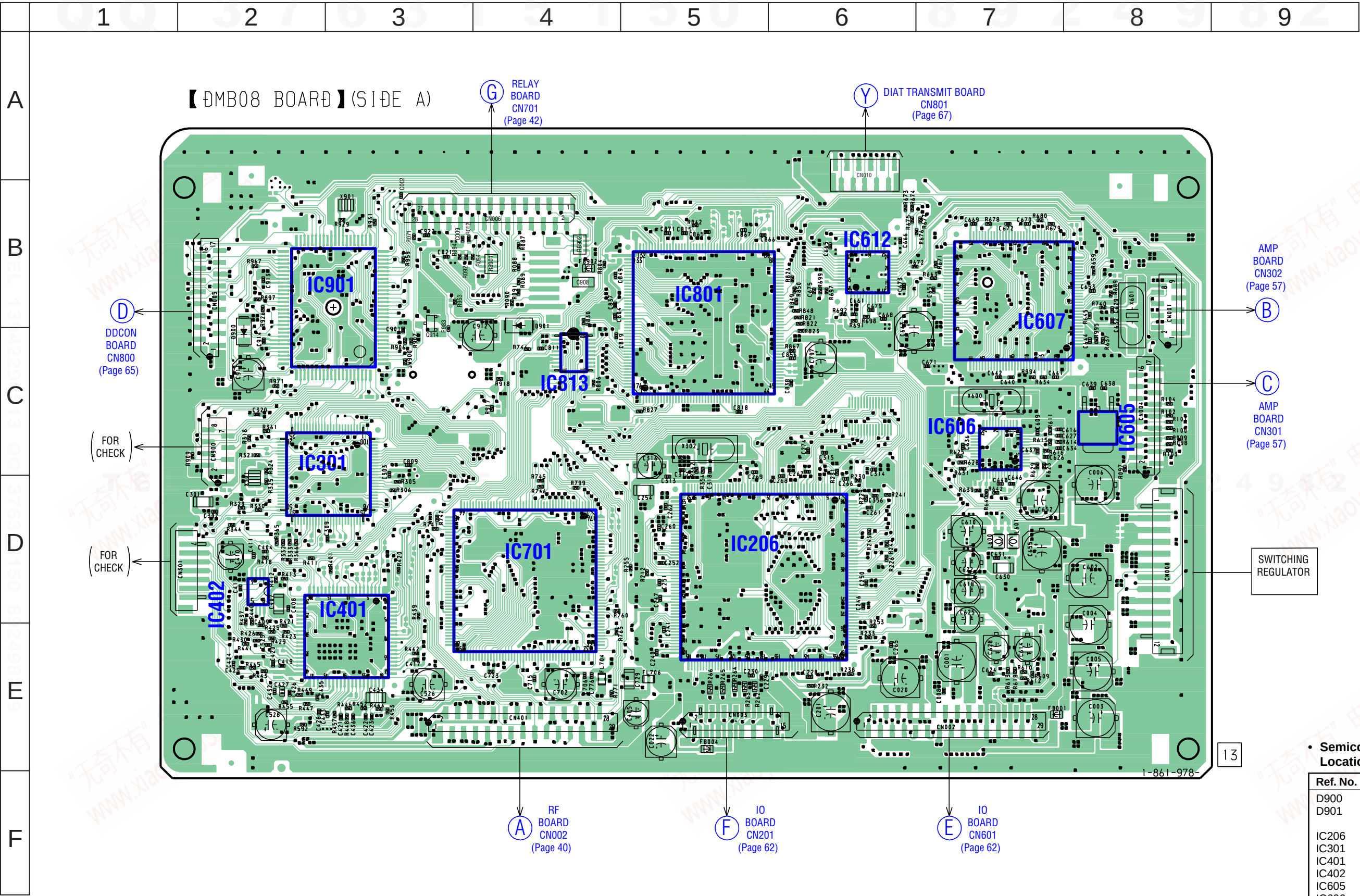


7-9. PRINTED WIRING BOARD — RELAY SECTION — • See page 32 for Circuit Boards Location. :Uses unleaded solder.



7-10. SCHEMATIC DIAGRAM — RELAY SECTION — • See page 84 for IC Block Diagrams.

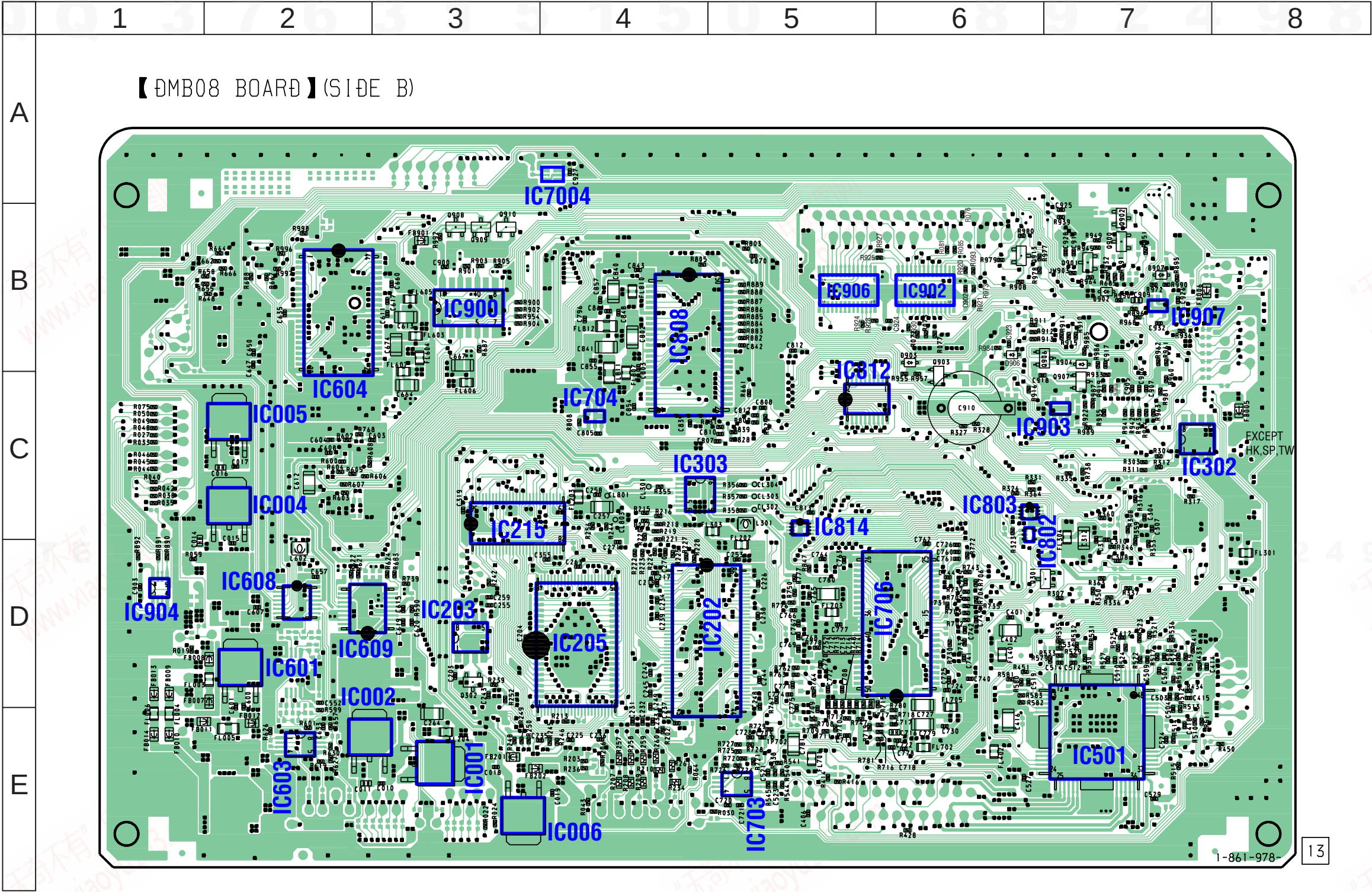




• Semiconductor Location

Ref. No.	Location
D900	C-2
D901	C-4
IC206	D-5
IC301	C-2
IC401	D-2
IC402	D-2
IC605	C-8
IC606	C-7
IC607	B-7
IC612	B-6
IC701	D-4
IC801	B-5
IC813	C-4
IC901	B-2
Q914	C-3

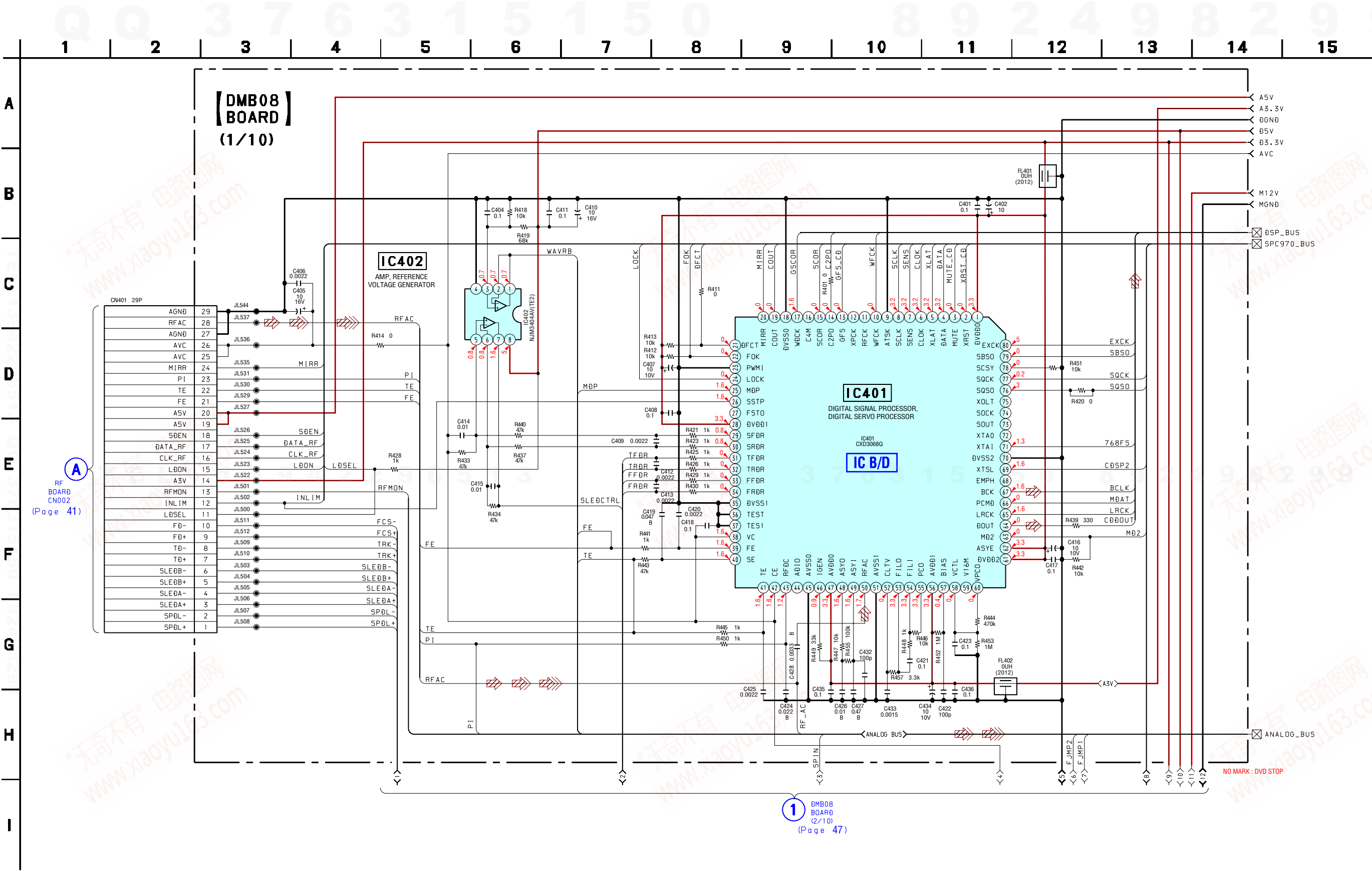
7-12. PRINTED WIRING BOARD — DMB08 BOARD (SIDE B) — • See page 32 for Circuit Boards Location.  :Uses unleaded solder.



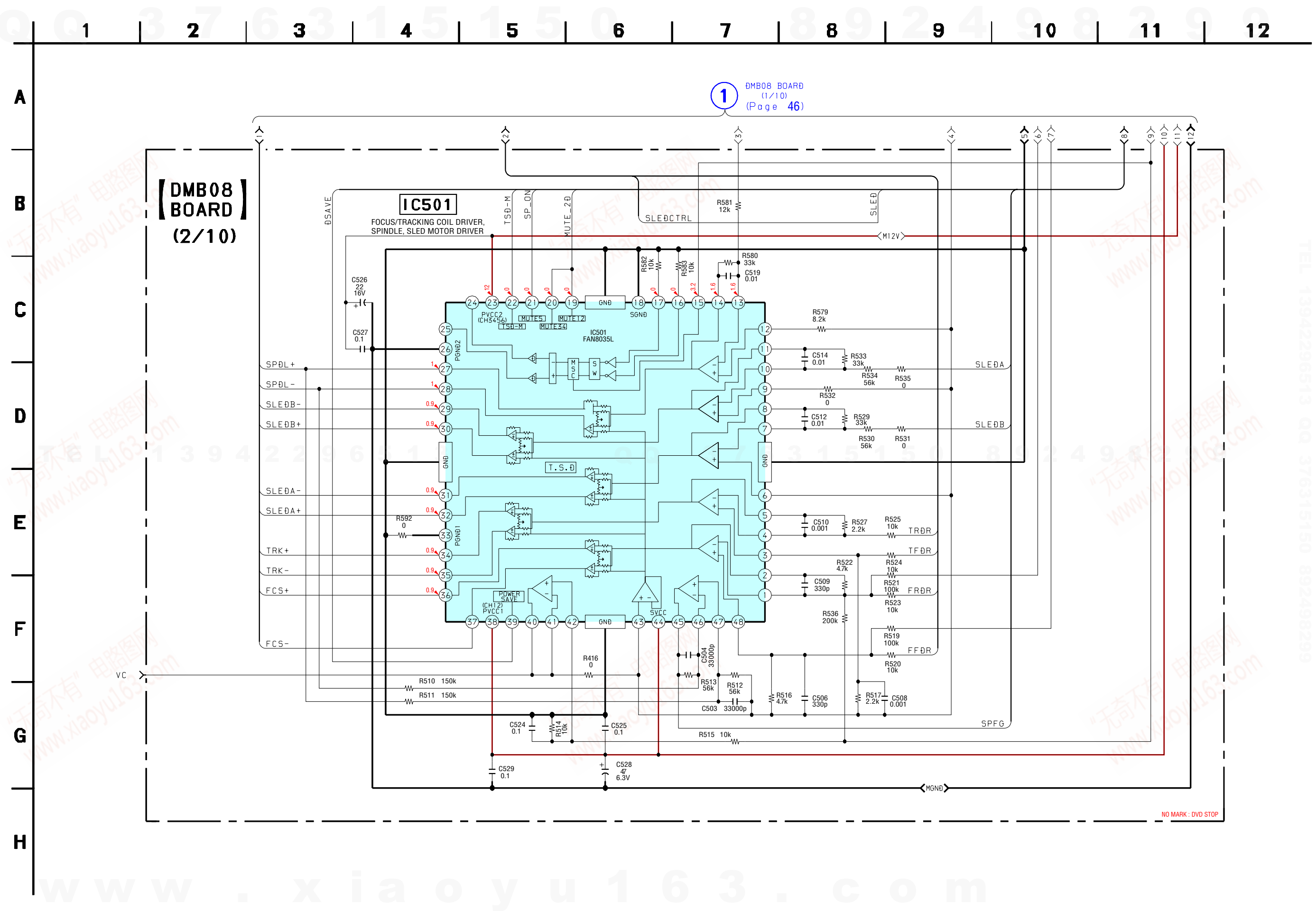
• Semiconductor Location

Ref. No.	Location
D902	B-7
D903	B-6
D904	C-7
D906	B-6
D907	B-7
IC001	E-3
IC002	D-2
IC004	C-2
IC005	C-2
IC006	E-4
IC202	D-4
IC203	D-3
IC205	D-4
IC215	C-3
IC302	C-7
IC303	C-4
IC501	E-7
IC601	D-2
IC603	E-2
IC604	C-2
IC608	D-2
IC609	D-2
IC703	E-5
IC704	C-4
IC706	D-5
IC802	C-7
IC803	C-6
IC808	B-4
IC812	C-5
IC814	C-5
IC900	B-3
IC902	B-6
IC903	C-6
IC904	D-1
IC906	B-5
IC907	B-7
IC7004	B-3
Q301	D-6
Q302	D-3
Q900	B-7
Q901	B-7
Q902	B-7
Q903	B-6
Q906	B-6
Q907	C-7
Q908	B-3
Q909	B-3
Q910	B-3
Q913	B-7

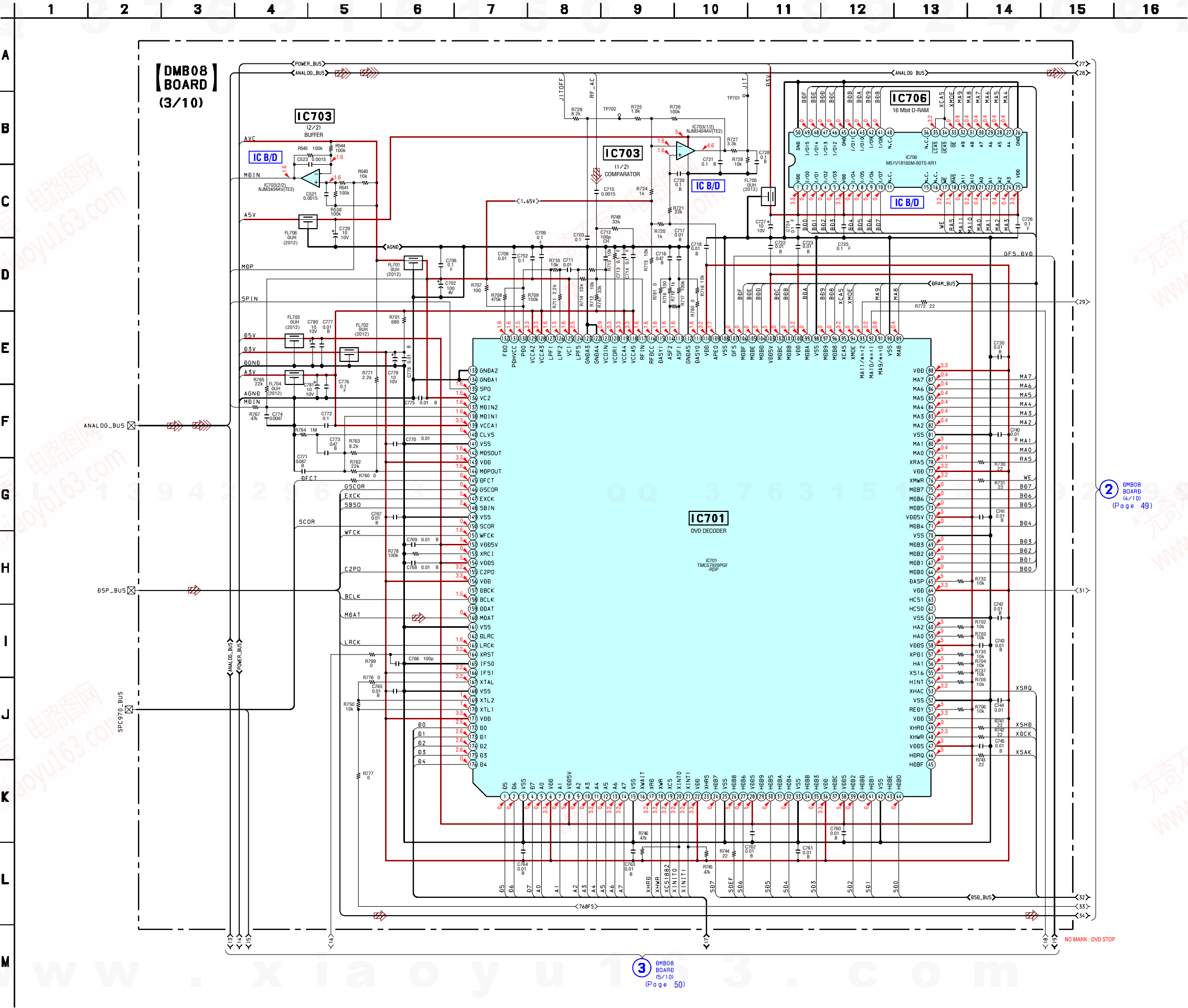
7-13. SCHEMATIC DIAGRAM — DMB08 BOARD (1/10) — • See page 79 for IC Block Diagrams. • See page 94 for IC Pin Function Description.



7-14. SCHEMATIC DIAGRAM — DMB08 BOARD (2/10) —



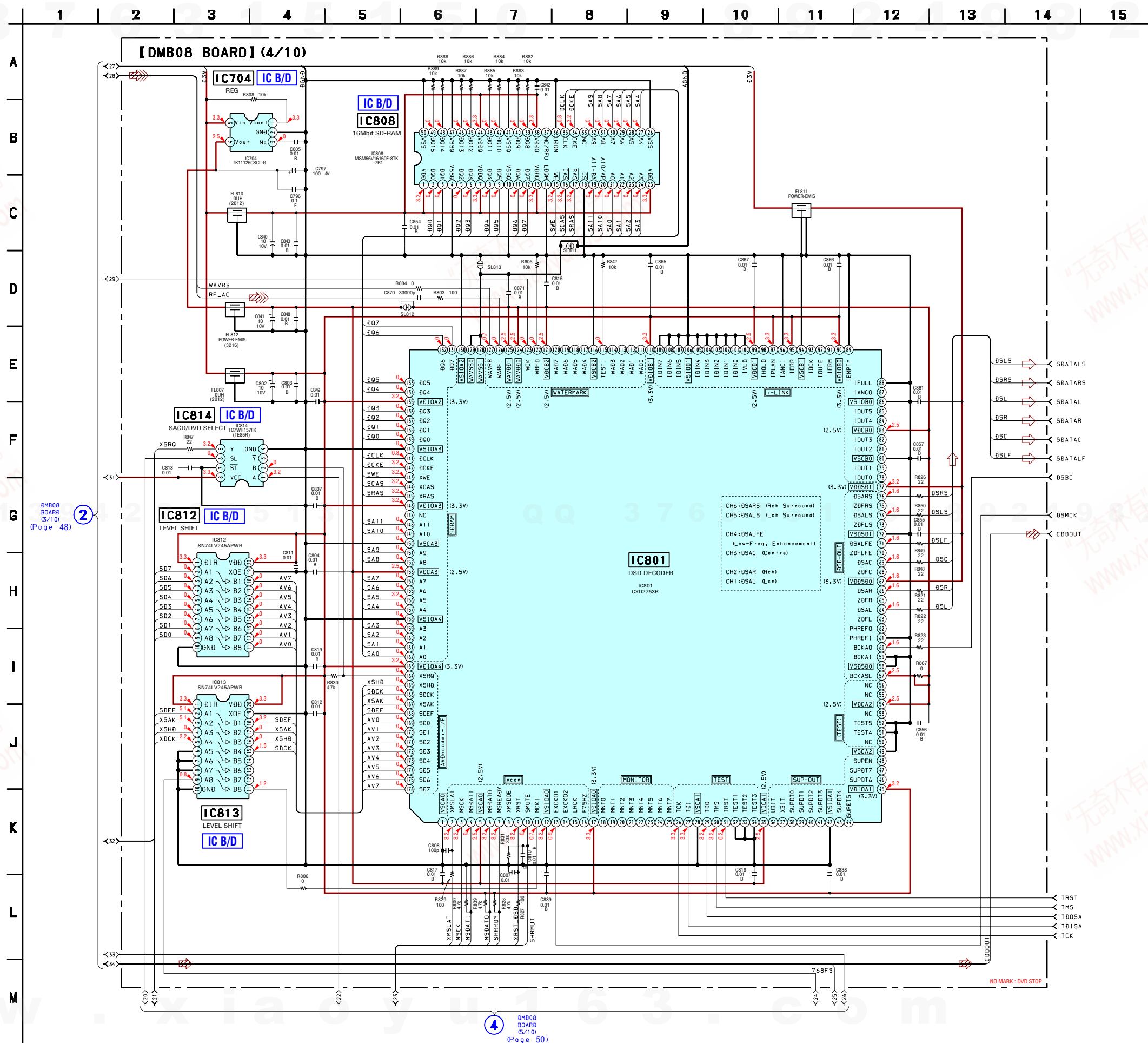
7-15. SCHEMATIC DIAGRAM — DMB08 BOARD (3/10) — • See page 82, 83 for IC Block Diagrams. • See page 99 for IC Pin Function Description.



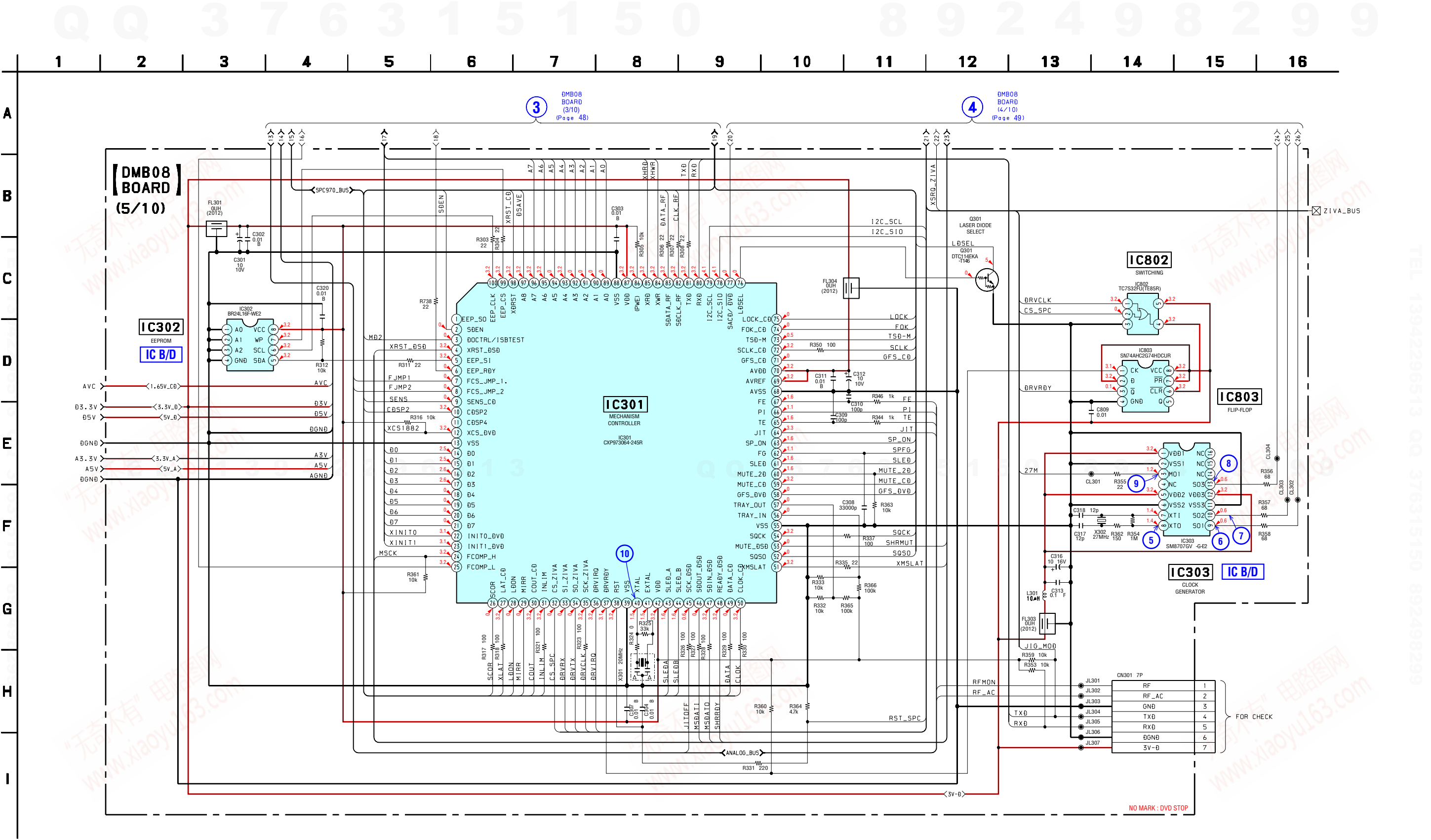
2 DMB08 BOARD (4/10) (Page 49)

3 DMB08 BOARD (5/10) (Page 50)

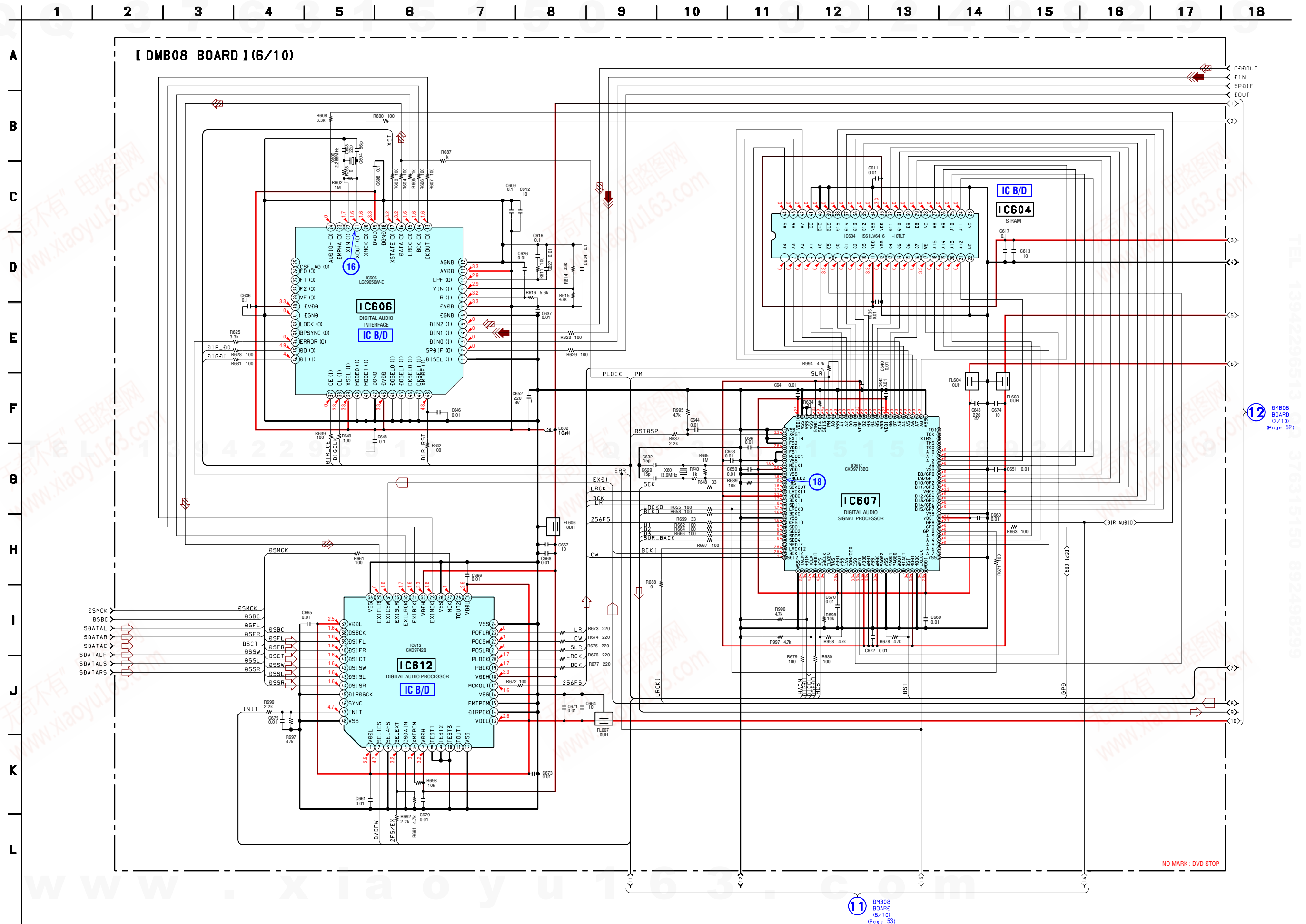
7-16. SCHEMATIC DIAGRAM — DMB08 BOARD (4/10) — • See page 82, 83, 84 for IC Block Diagrams. • See page 103 for IC Pin Function Description.



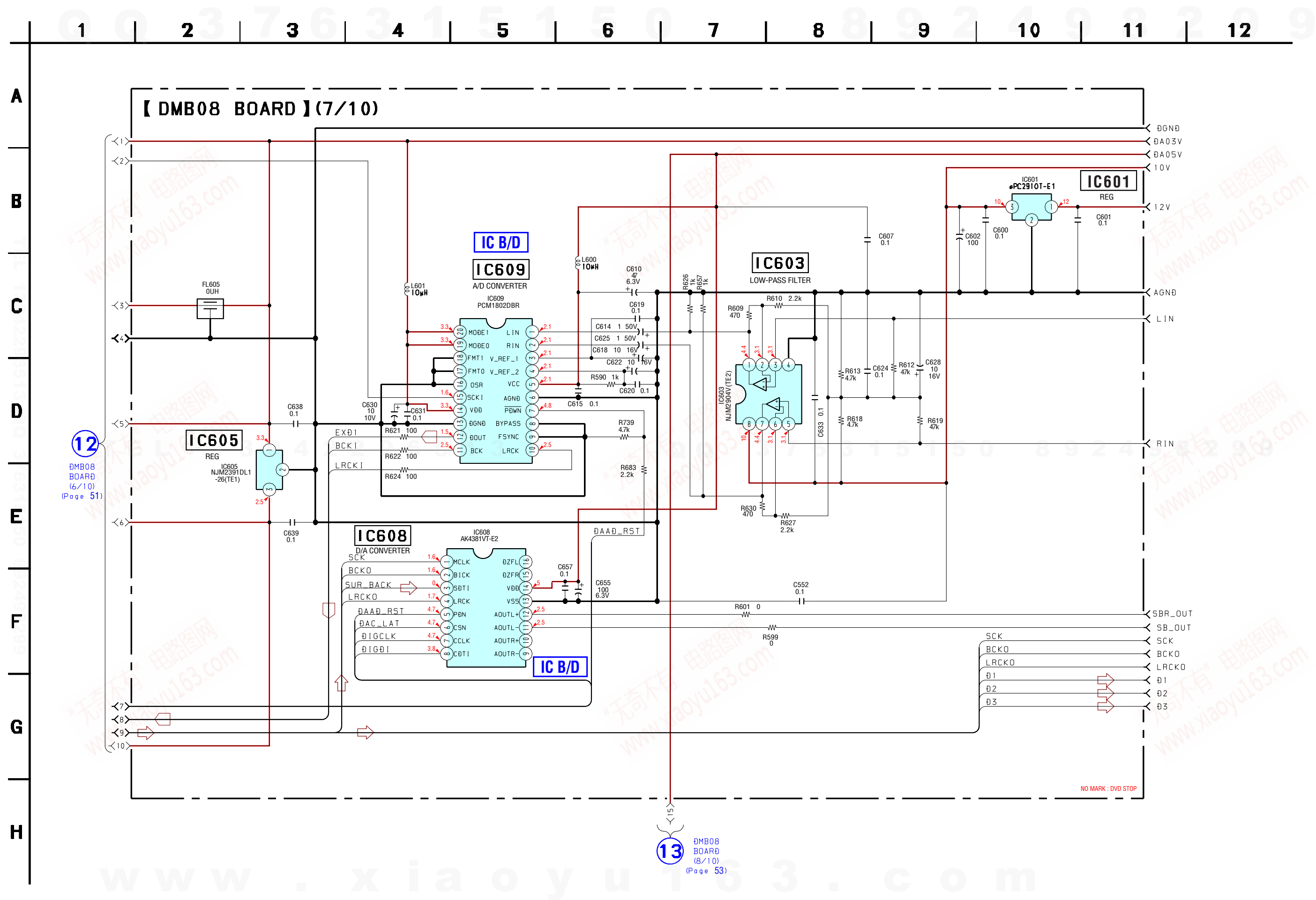
7-17. SCHEMATIC DIAGRAM — DMB08 BOARD (5/10) — • See page 78, 79 for IC Block Diagrams. • See page 75 for Waveforms. • See page 92 for IC Pin Function Description.



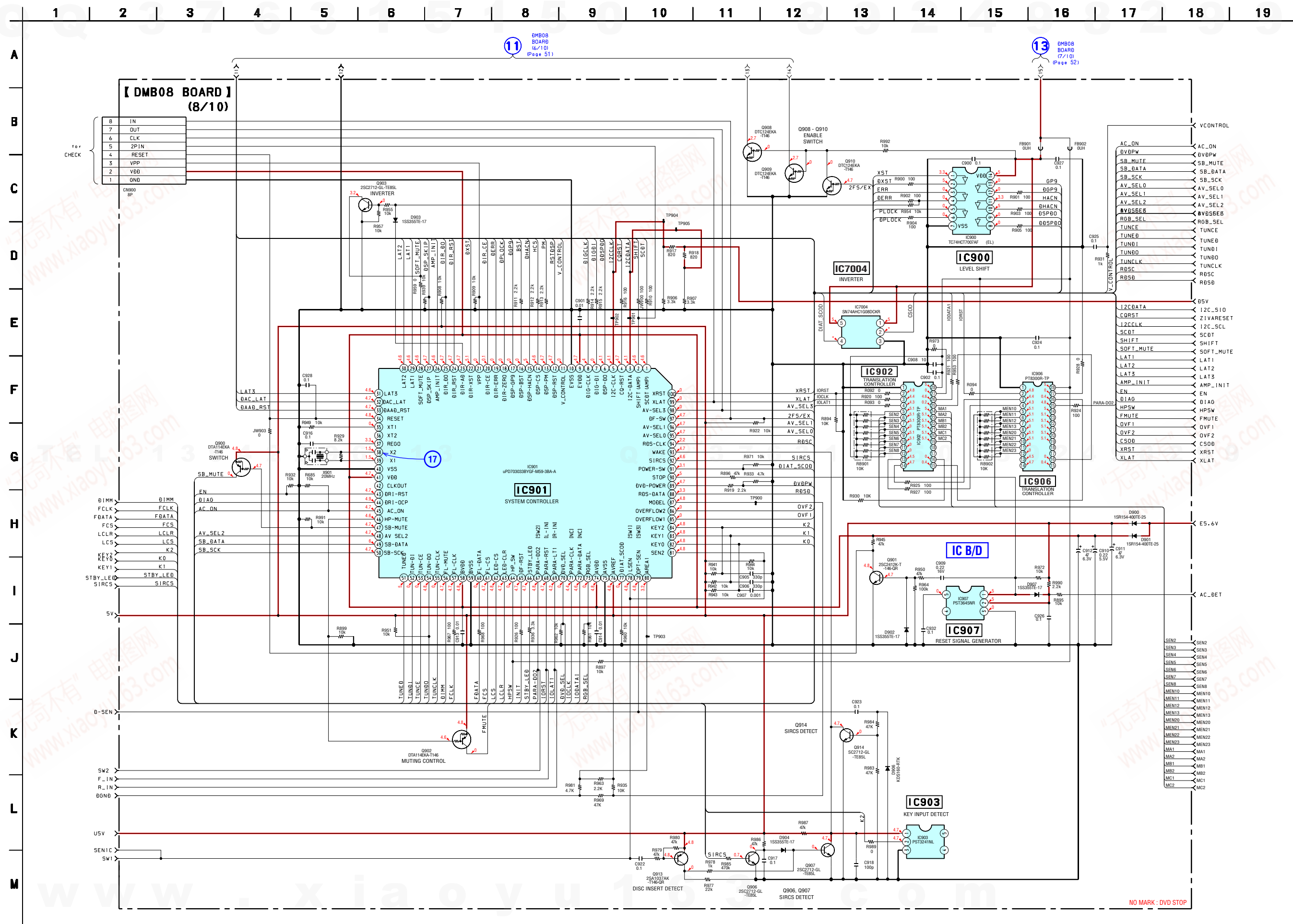
7-18. SCHEMATIC DIAGRAM — DMB08 BOARD (6/10) — • See page 80, 82 for IC Block Diagrams. • See page 75 for Waveforms. • See page 96 for IC Pin Function Description.



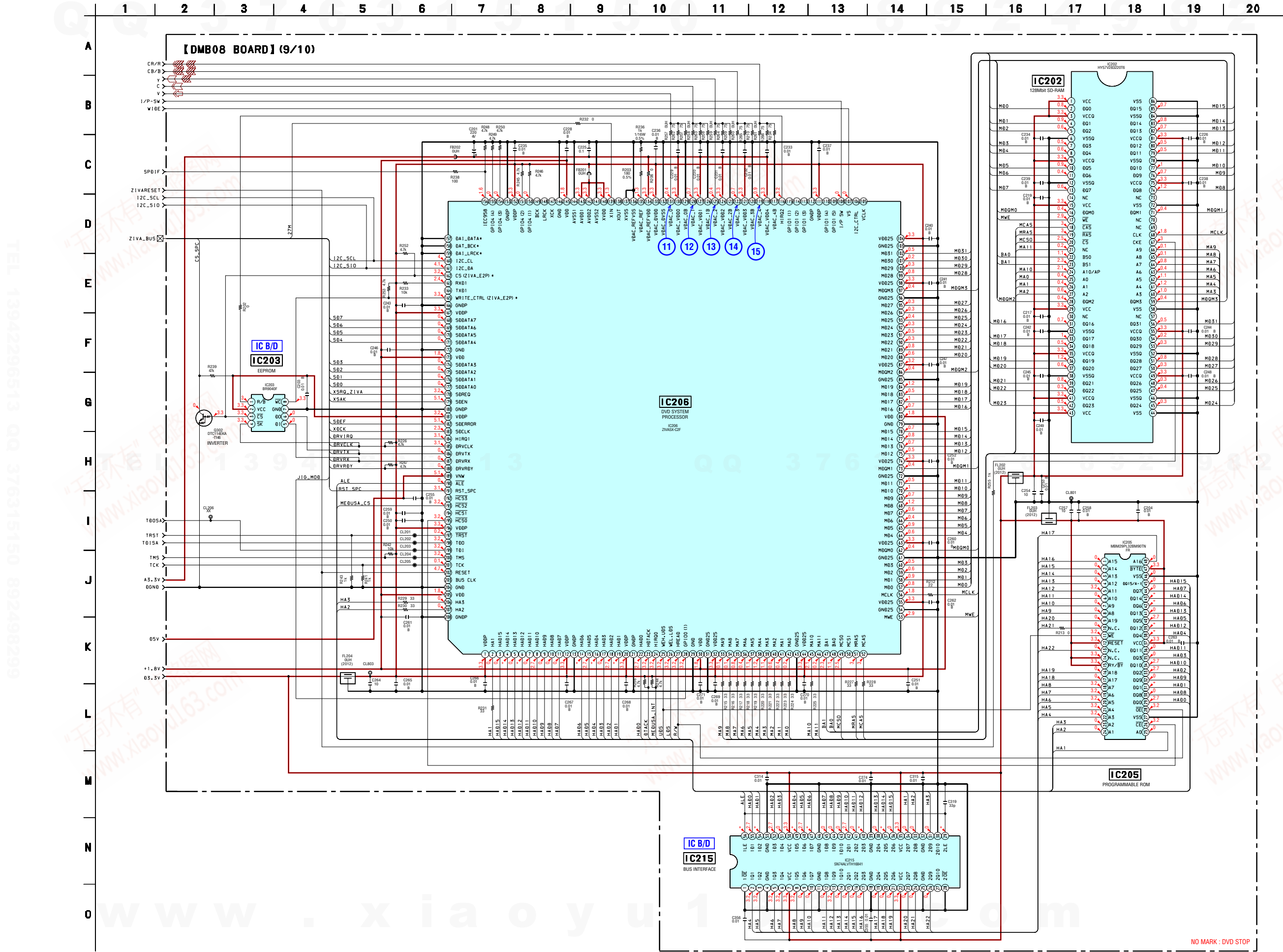
7-19. SCHEMATIC DIAGRAM — DMB08 BOARD (7/10) — • See page 81 for IC Block Diagrams.



7-20. SCHEMATIC DIAGRAM — DMB08 BOARD (8/10) — • See page 84 for IC Block Diagrams. • See page 75 for Waveforms. • See page 106 for IC Pin Function Description.

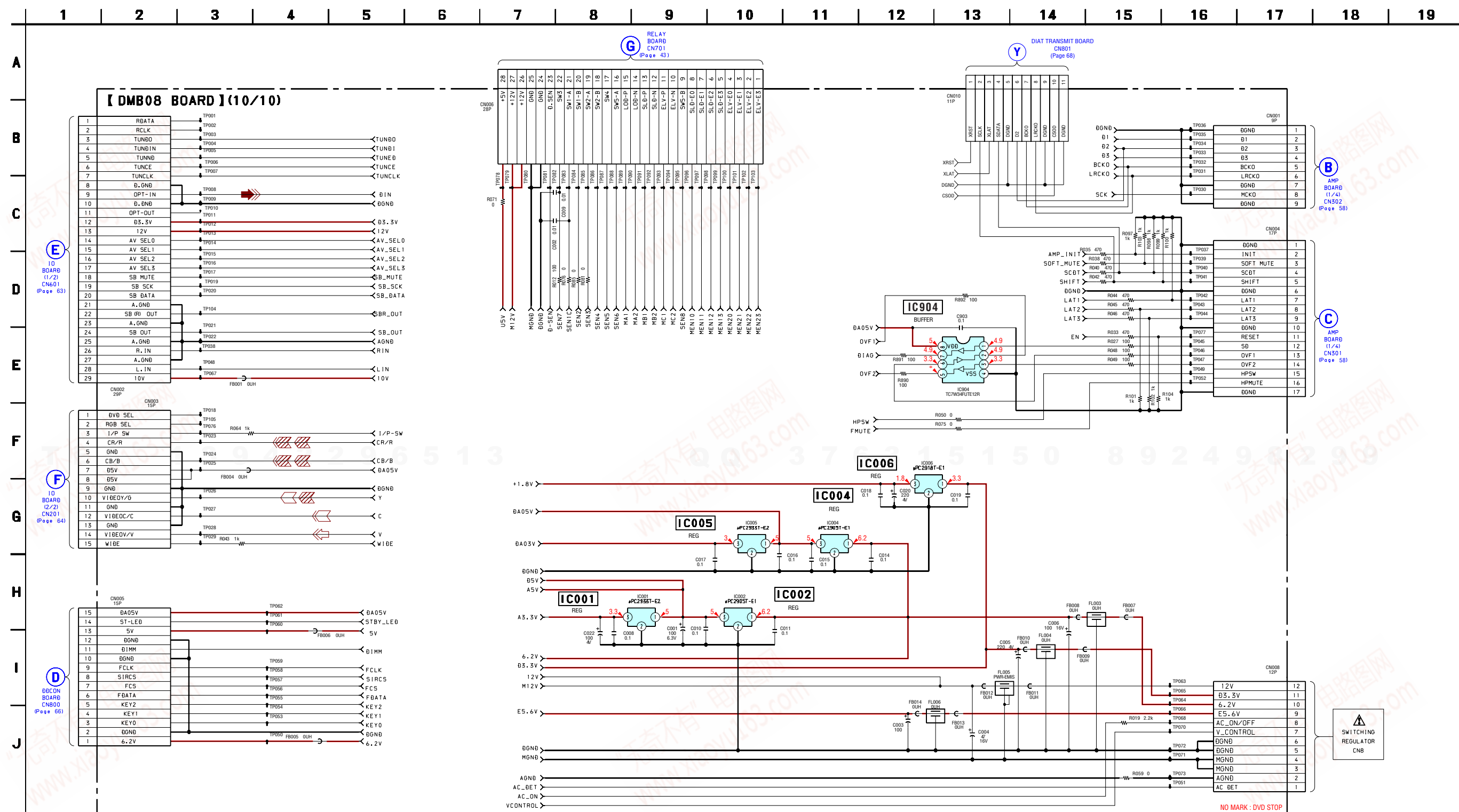


7-21. SCHEMATIC DIAGRAM — DMB08 BOARD (9/10) — • See page 78 for IC Block Diagrams. • See page 75 for Waveforms. • See page 87 for IC Pin Function Description.

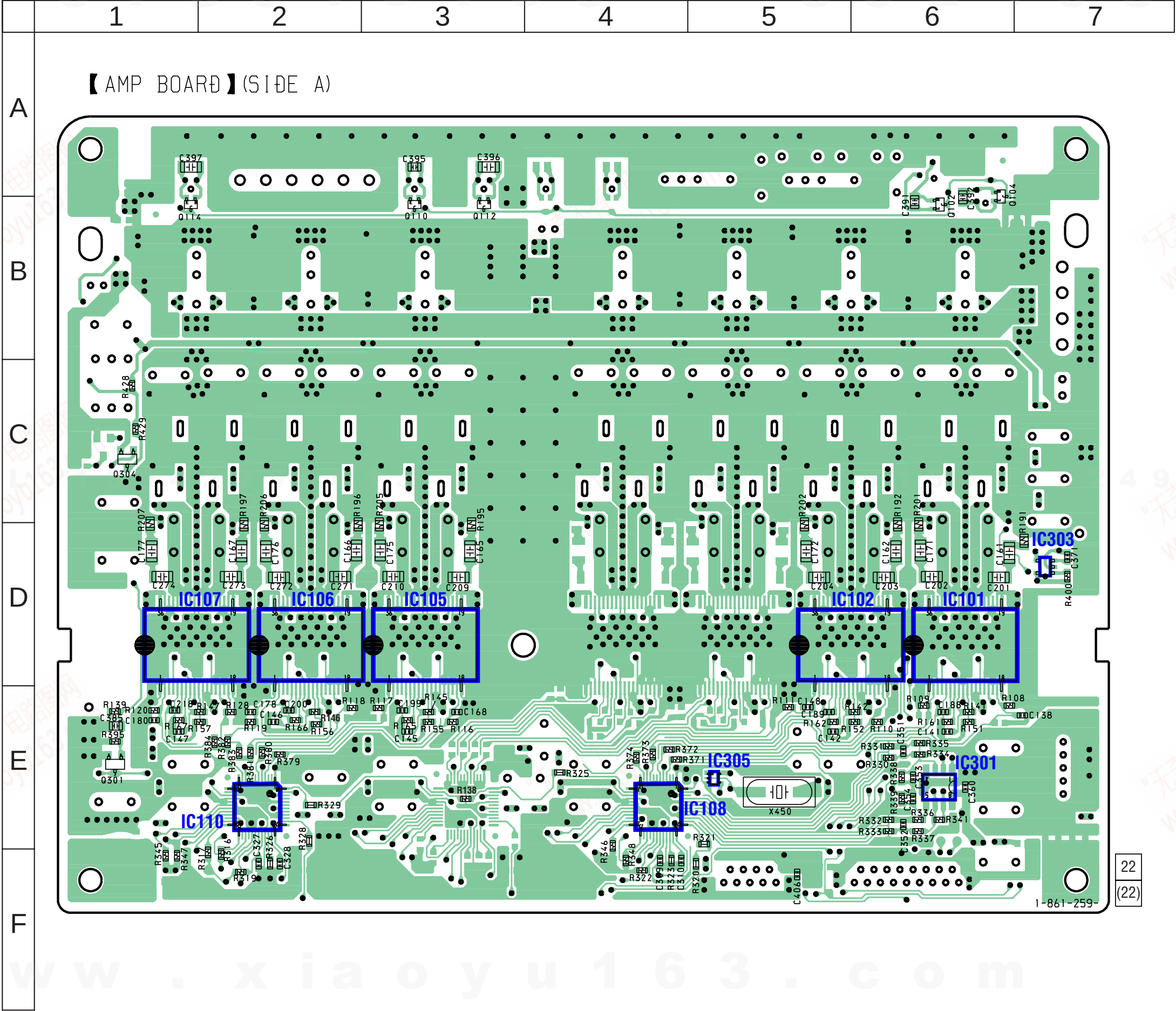


NO MARK : DVD STOP

7-22. SCHEMATIC DIAGRAM — DMB08 BOARD (10/10) —



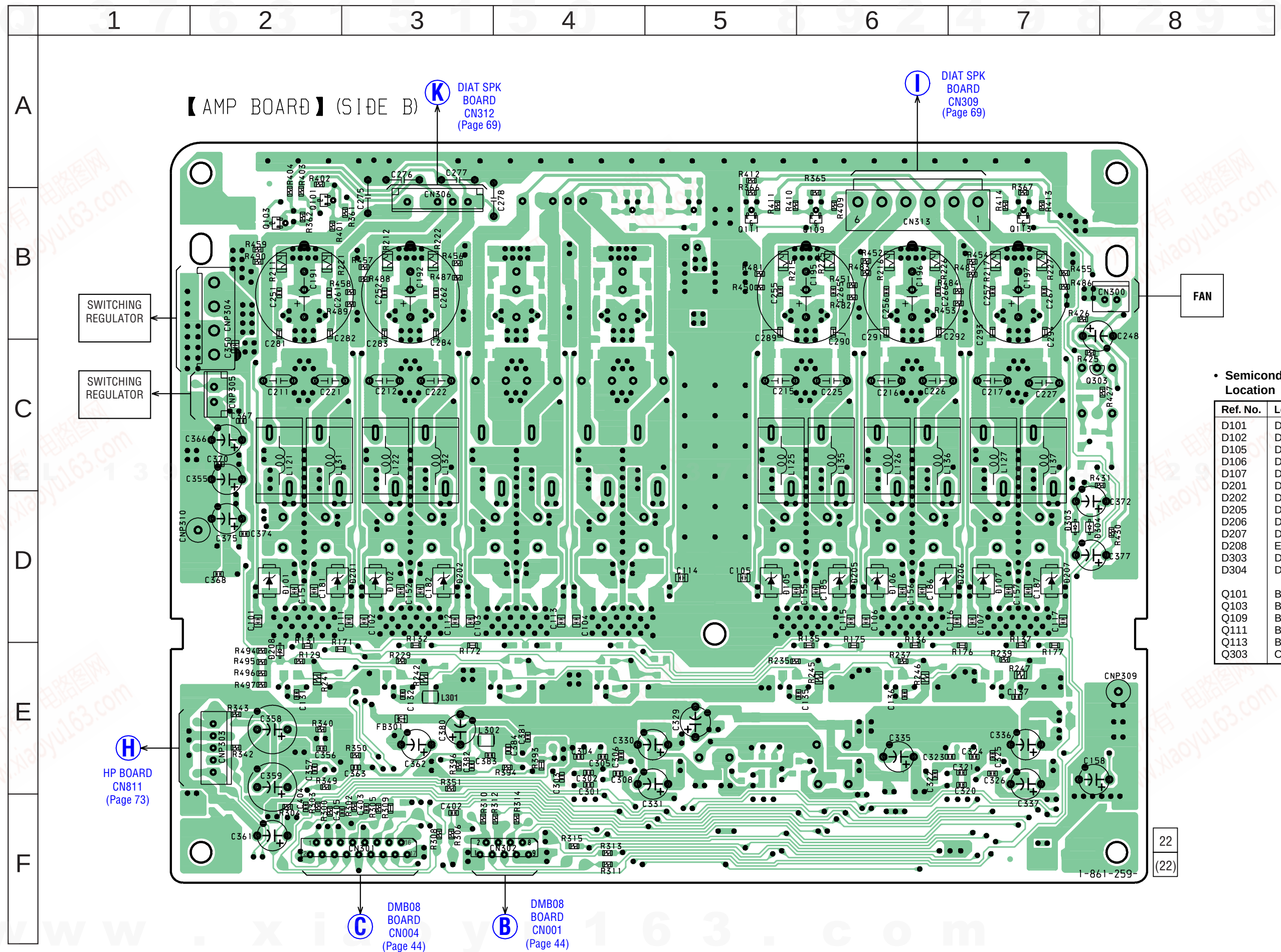
7-23. PRINTED WIRING BOARD — AMP BOARD (SIDE A) — • See page 32 for Circuit Boards Location.  :Uses unleaded solder.



• Semiconductor Location

Ref. No.	Location
IC101	D-6
IC102	D-5
IC105	D-3
IC106	D-2
IC107	D-1
IC108	E-4
IC110	E-2
IC301	E-6
IC303	C-7
IC305	E-5
Q102	B-6
Q104	B-7
Q110	B-3
Q112	B-3
Q114	B-1
Q301	E-1
Q304	C-1

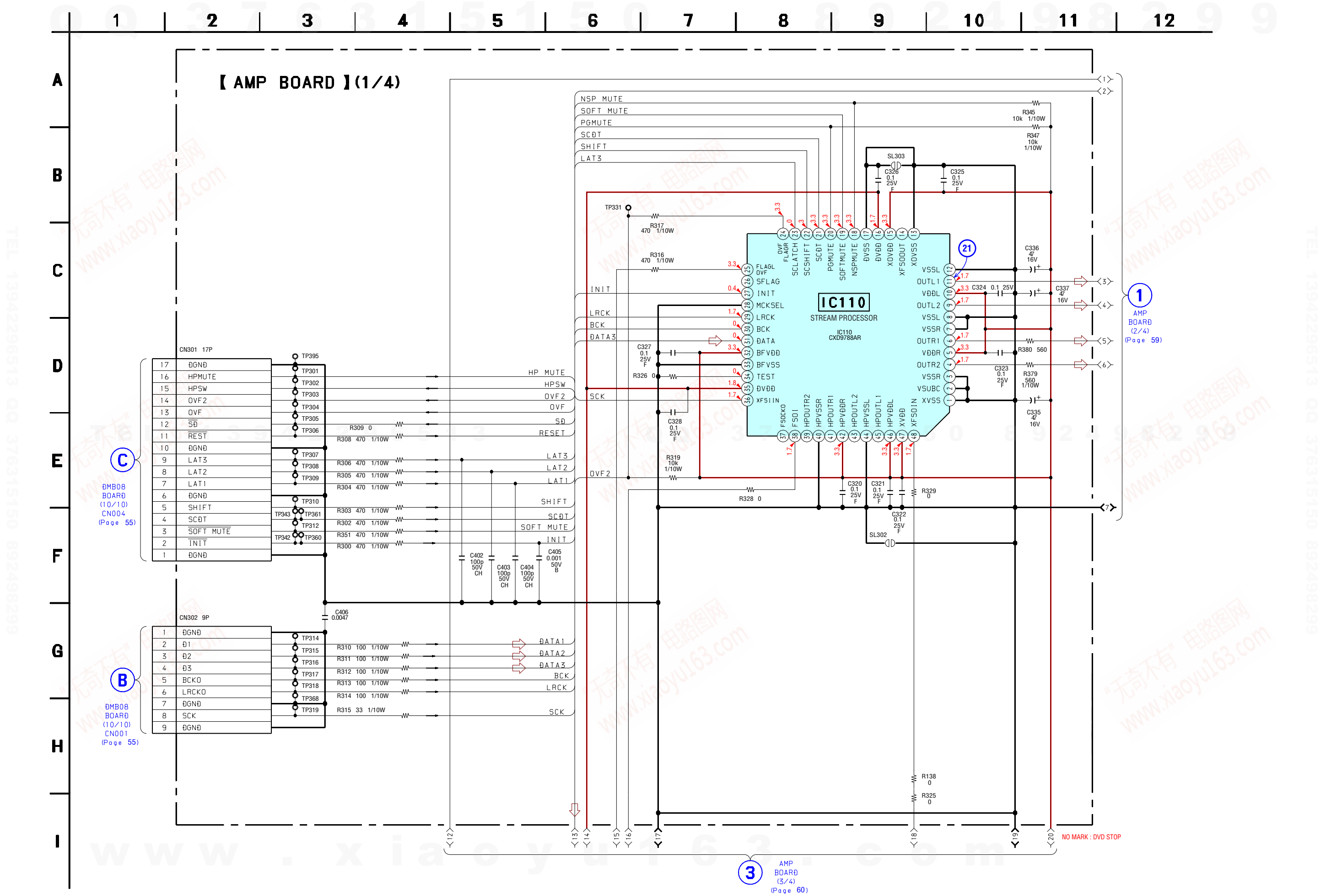
7-24. PRINTED WIRING BOARD — AMP BOARD (SIDE B) — • See page 32 for Circuit Boards Location.  :Uses unleaded solder.



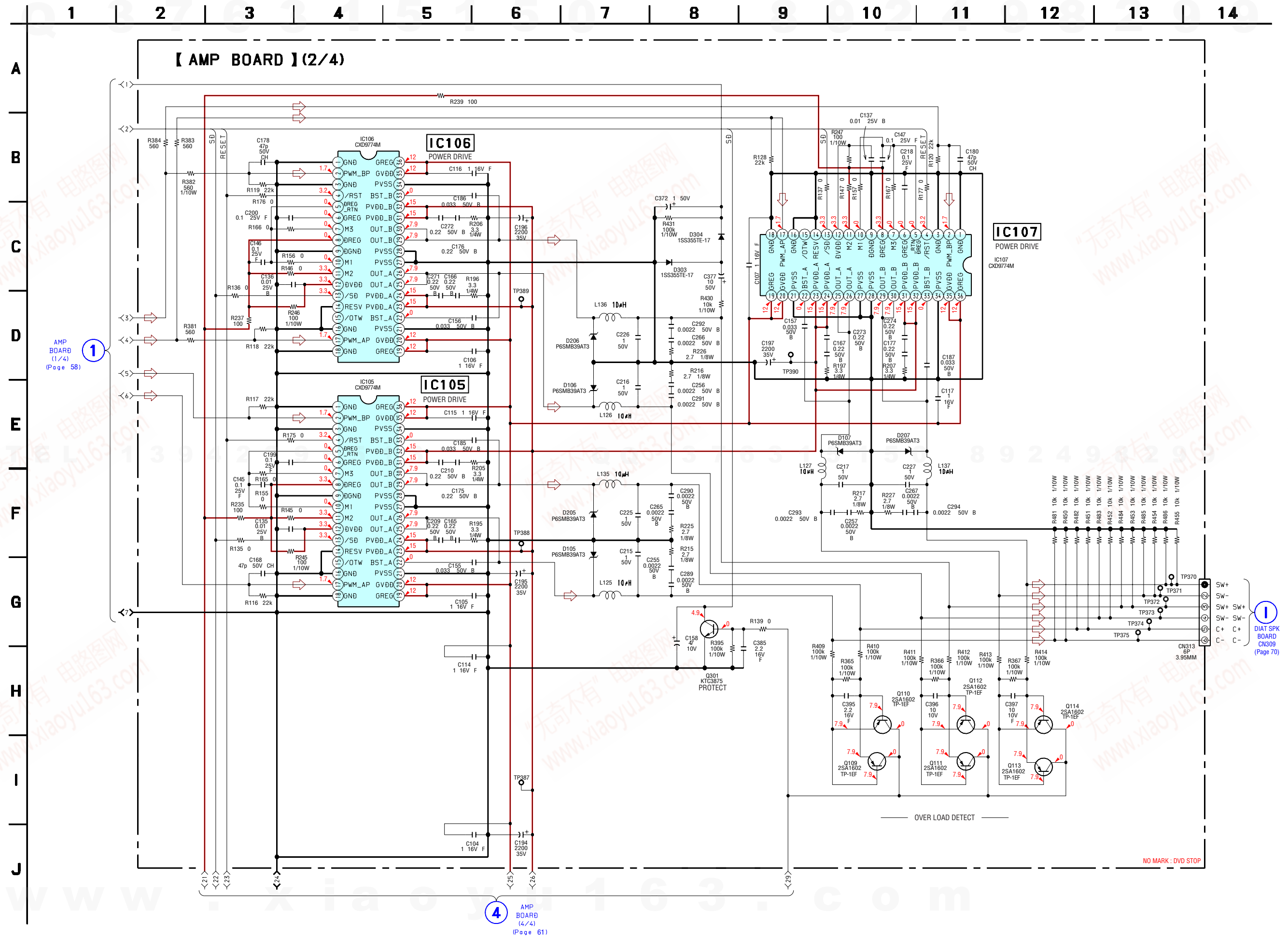
• Semiconductor Location

Ref. No.	Location
D101	D-2
D102	D-3
D105	D-5
D106	D-6
D107	D-7
D201	D-3
D202	D-3
D205	D-6
D206	D-7
D207	D-7
D208	E-2
D303	D-7
D304	D-7
Q101	B-2
Q103	B-2
Q109	B-6
Q111	B-5
Q113	B-7
Q303	C-7

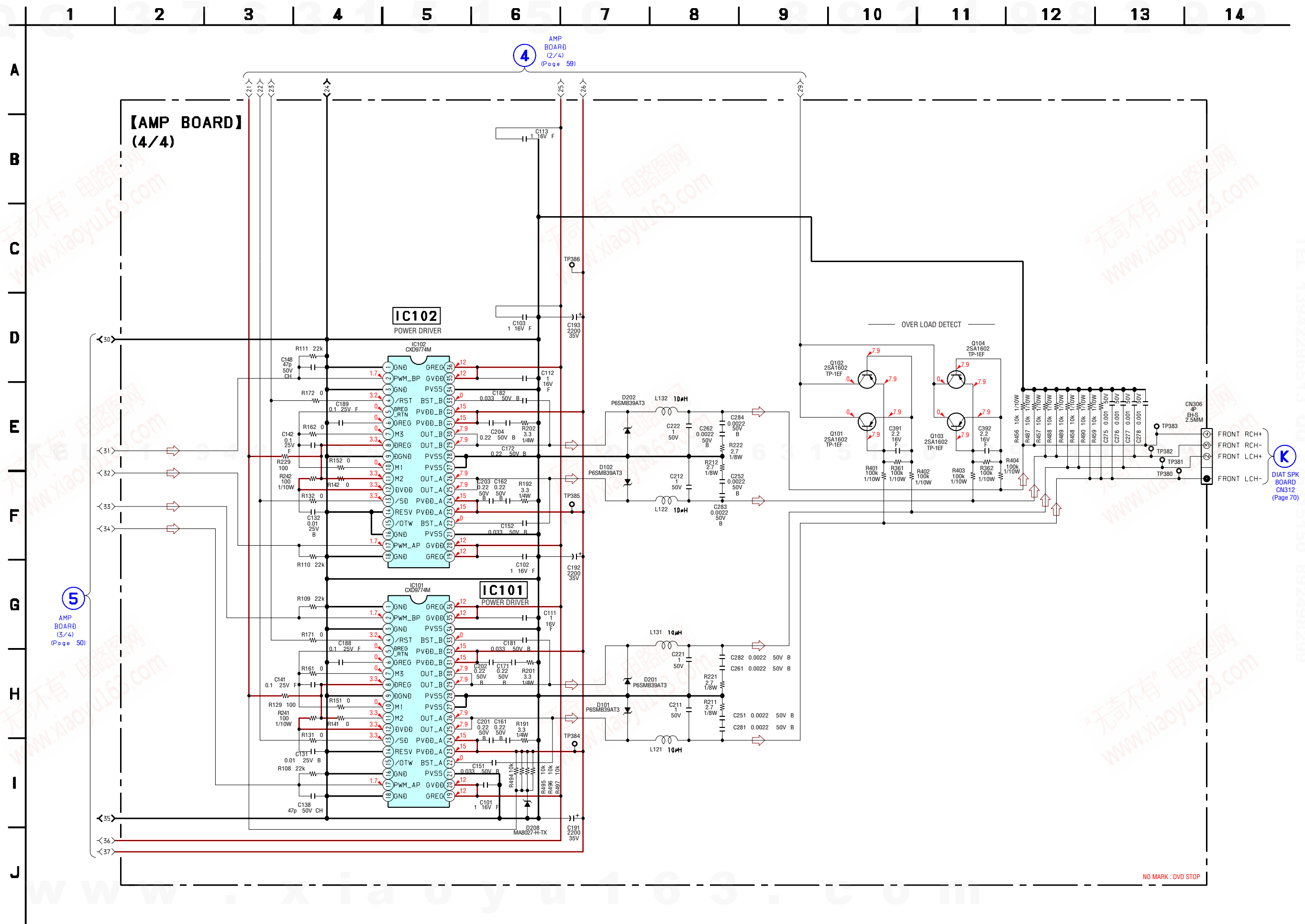
7-25. SCHEMATIC DIAGRAM — AMP BOARD (1/4) — • See page 76 for IC Block Diagrams.

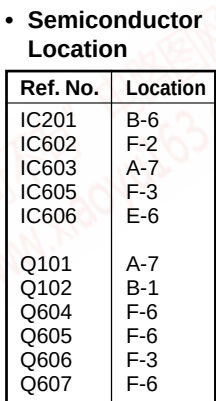


7-26. SCHEMATIC DIAGRAM — AMP BOARD (2/4) —

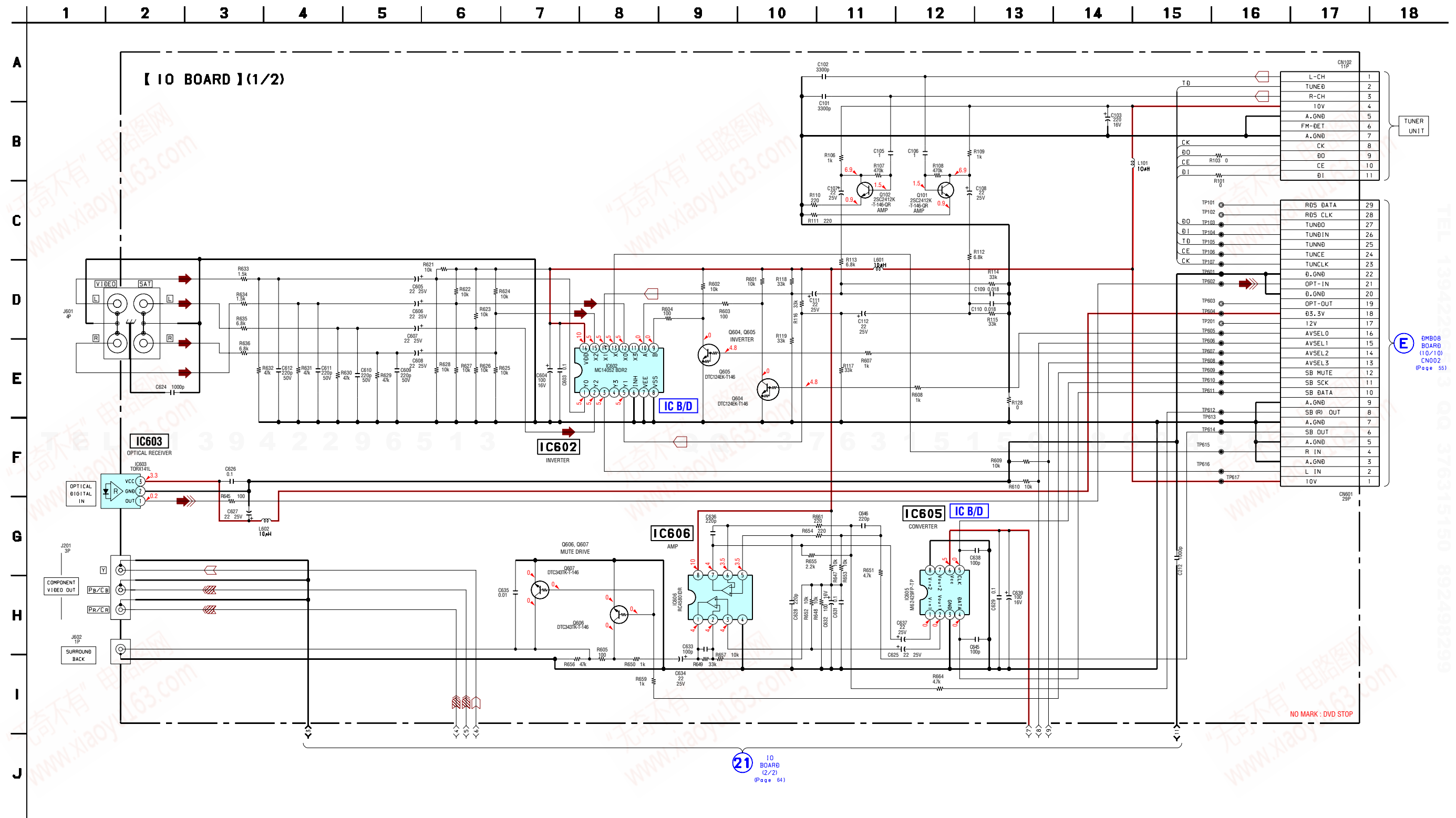


7-28. SCHEMATIC DIAGRAM — AMP BOARD (4/4) —

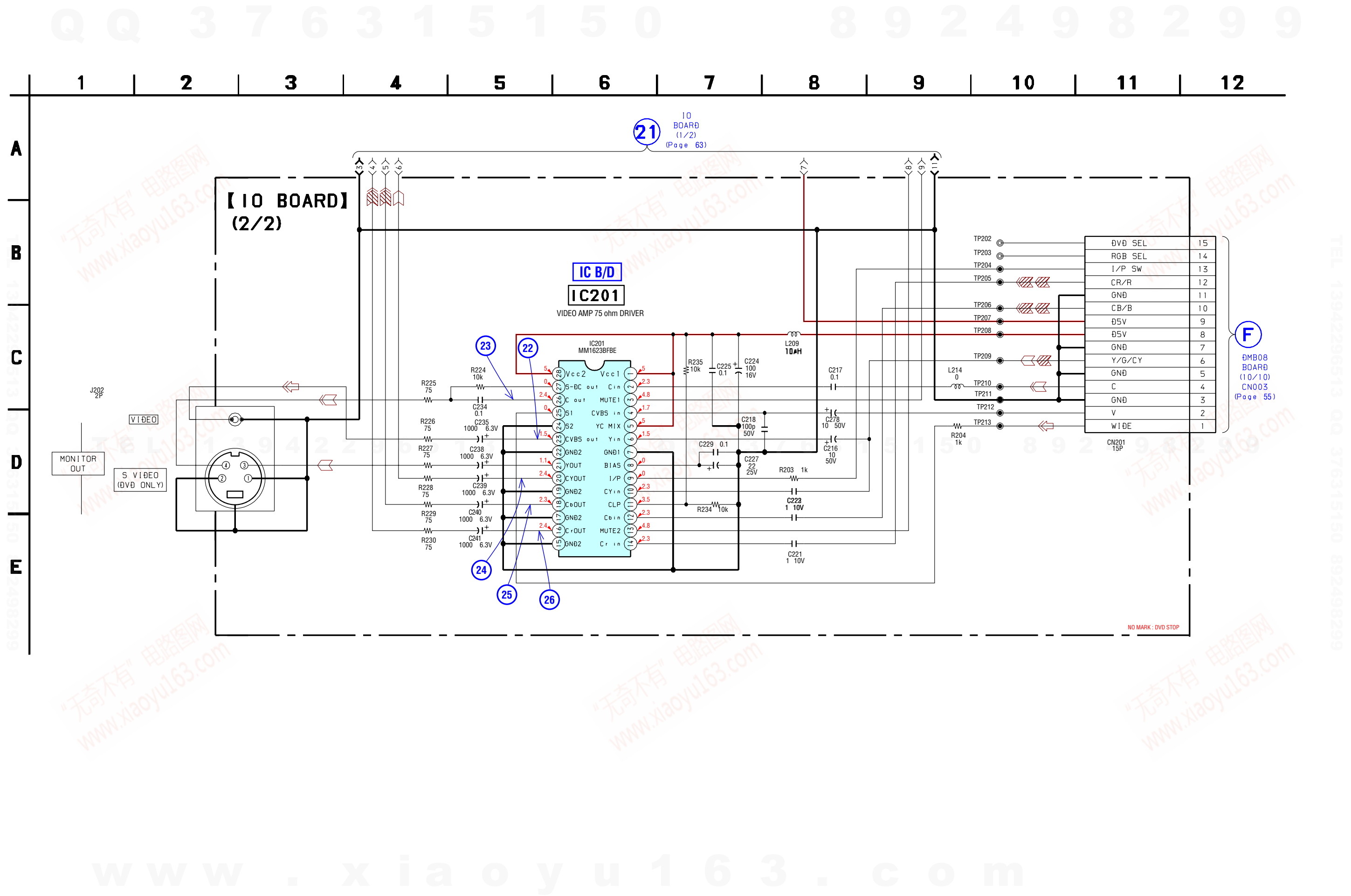




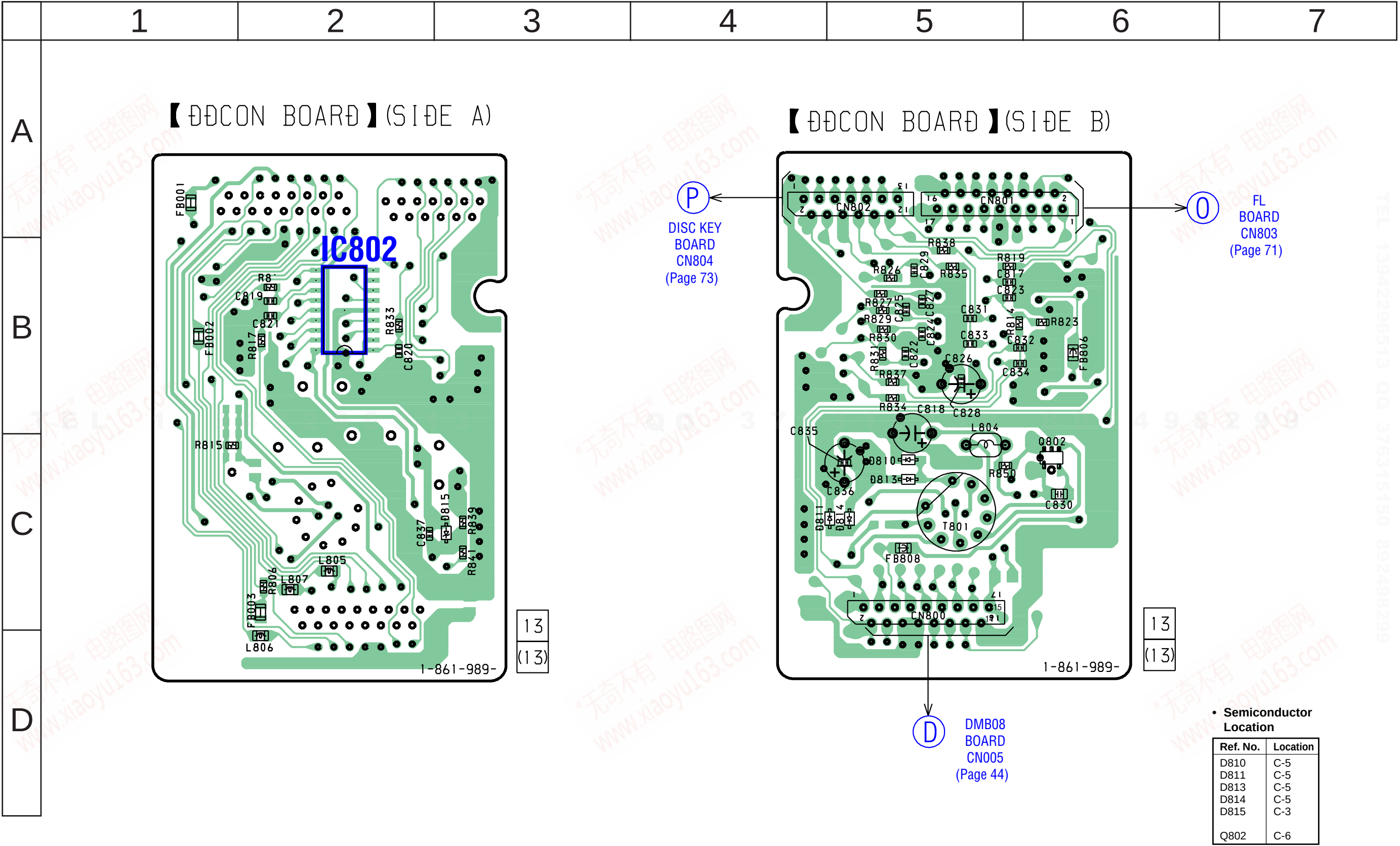
7-30. SCHEMATIC DIAGRAM — IO BOARD (1/2) — • See page 85 for IC Block Diagrams.



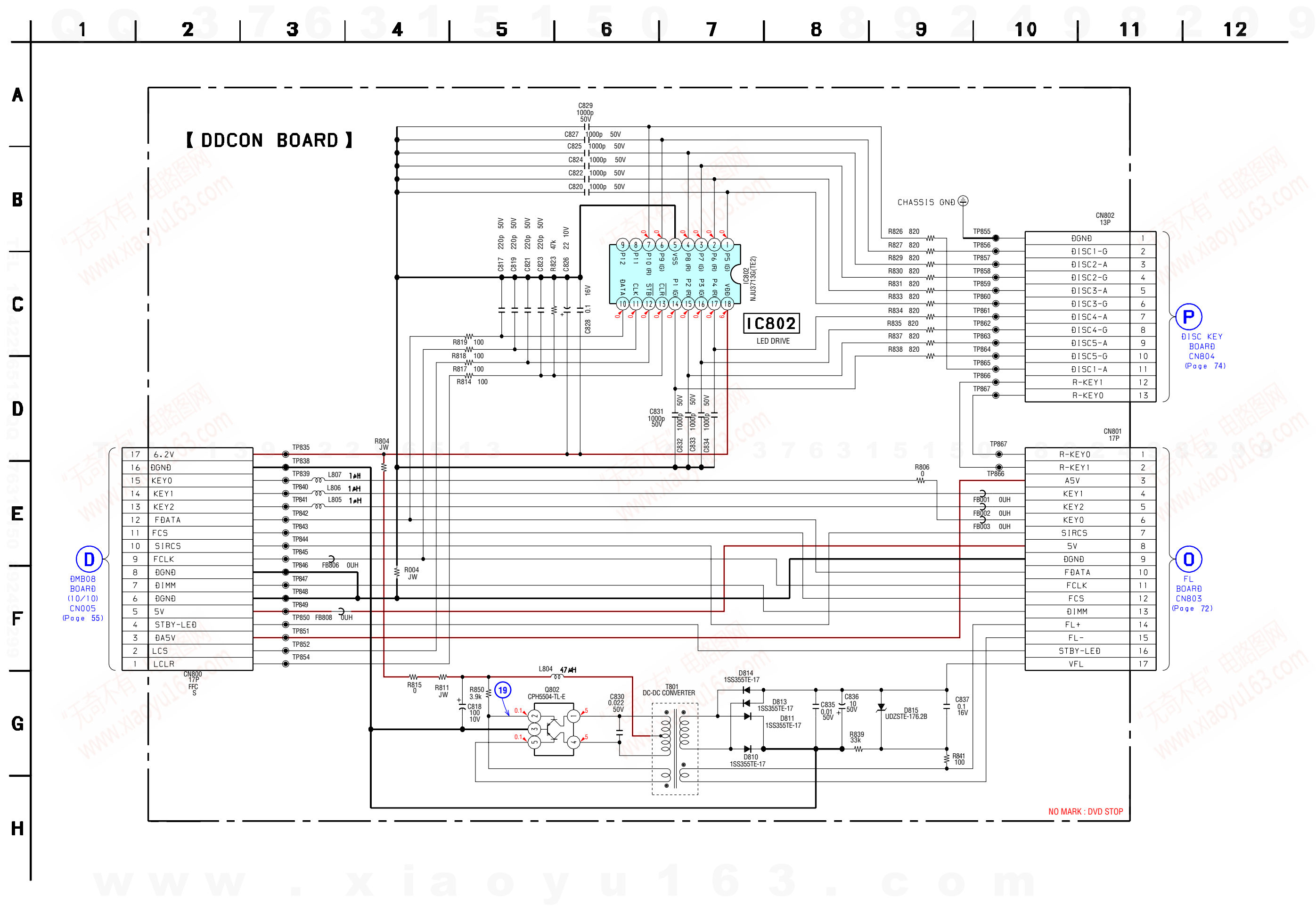
7-31. SCHEMATIC DIAGRAM — IO BOARD (2/2) — • See page 85 for IC Block Diagrams. • See page 76 for Waveforms.



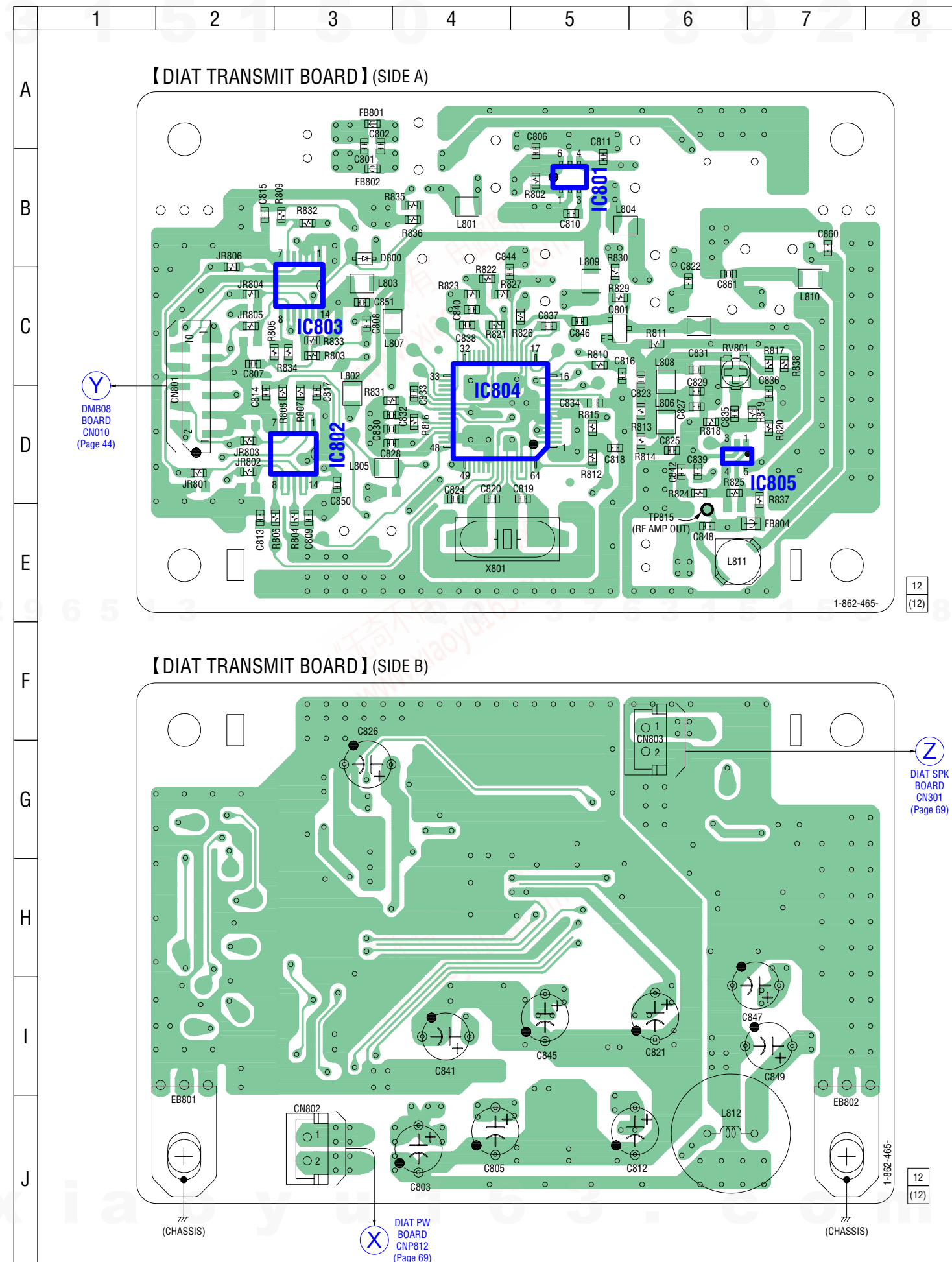
7-32. PRINTED WIRING BOARD — DDCON BOARD — • See page 32 for Circuit Boards Location.  :Uses unleaded solder.



7-33. SCHEMATIC DIAGRAM — DDCON BOARD — • See page 76 for Waveforms.



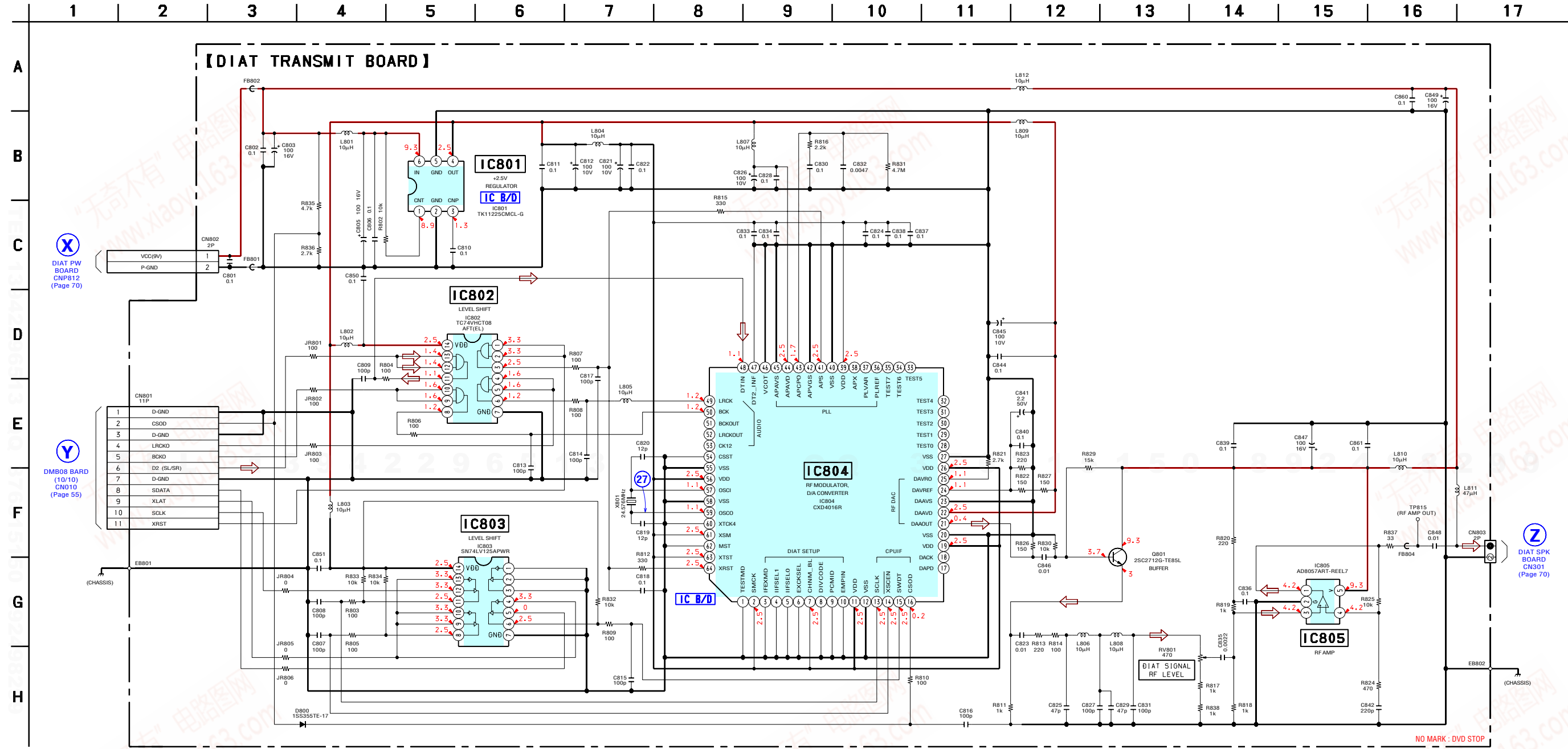
7-34. PRINTED WIRING BOARD — DIAT TRANSMIT BOARD — • See page 32 for Circuit Boards Location. :Uses unleaded solder.



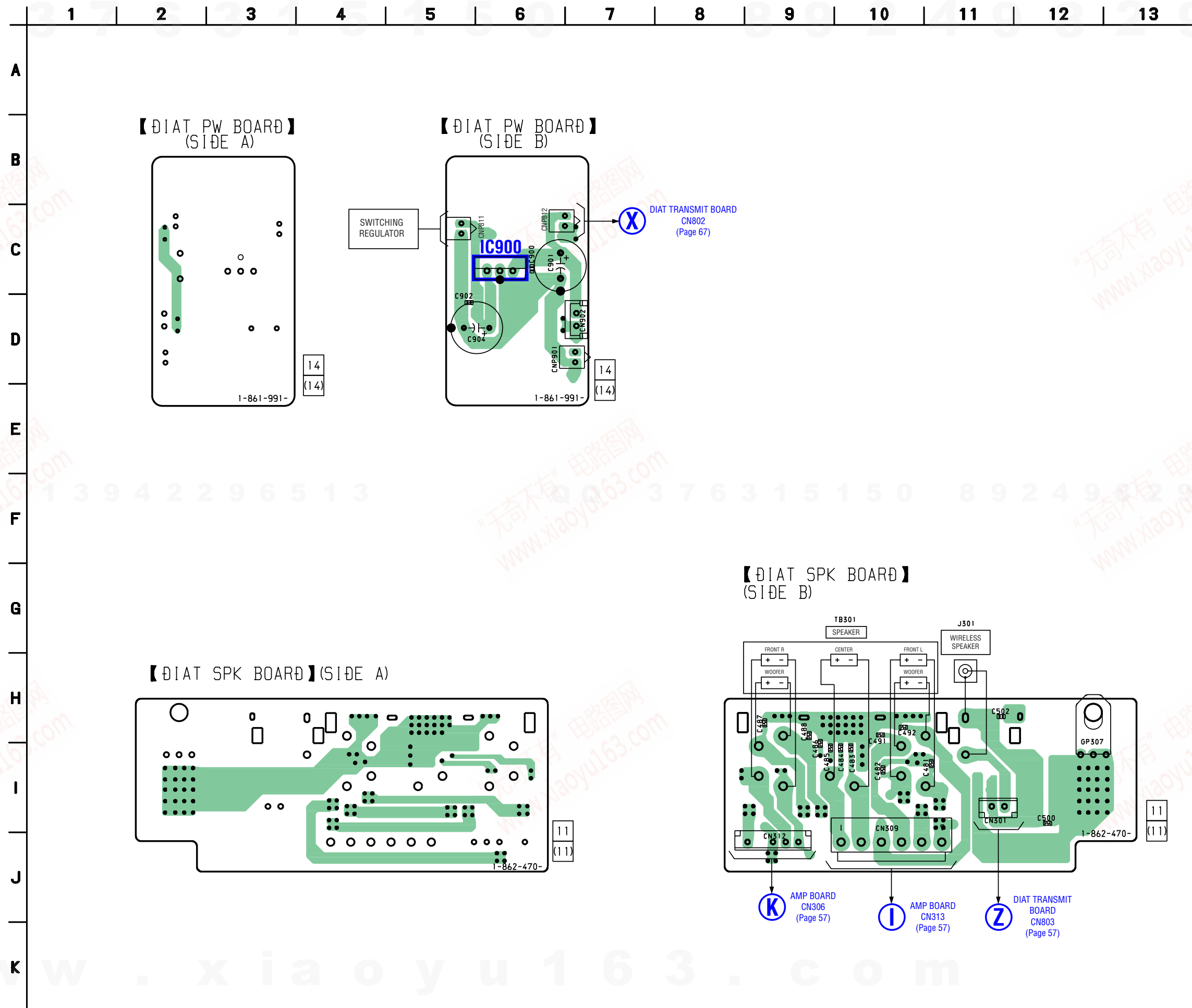
- **Semiconductor Location**

Ref. No.	Location
D800	B-3
IC801	B-5
IC802	D-3
IC803	C-3
IC804	C-4
IC805	E-6
Q801	C-5

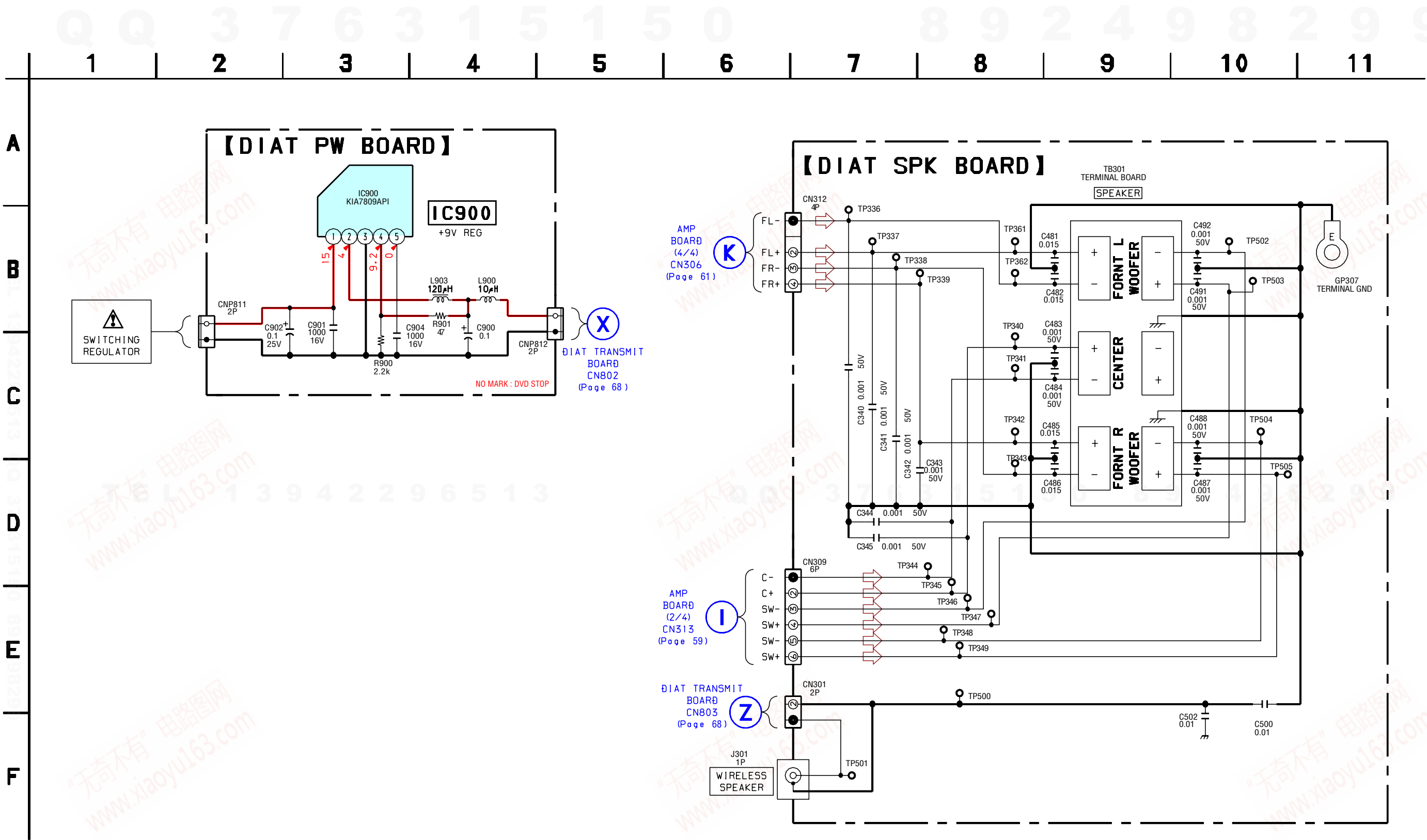
7-35. SCHEMATIC DIAGRAM — DIAT TRANSMIT BOARD — • See page 77 for IC Block Diagrams. • See page 76 for Waveforms.



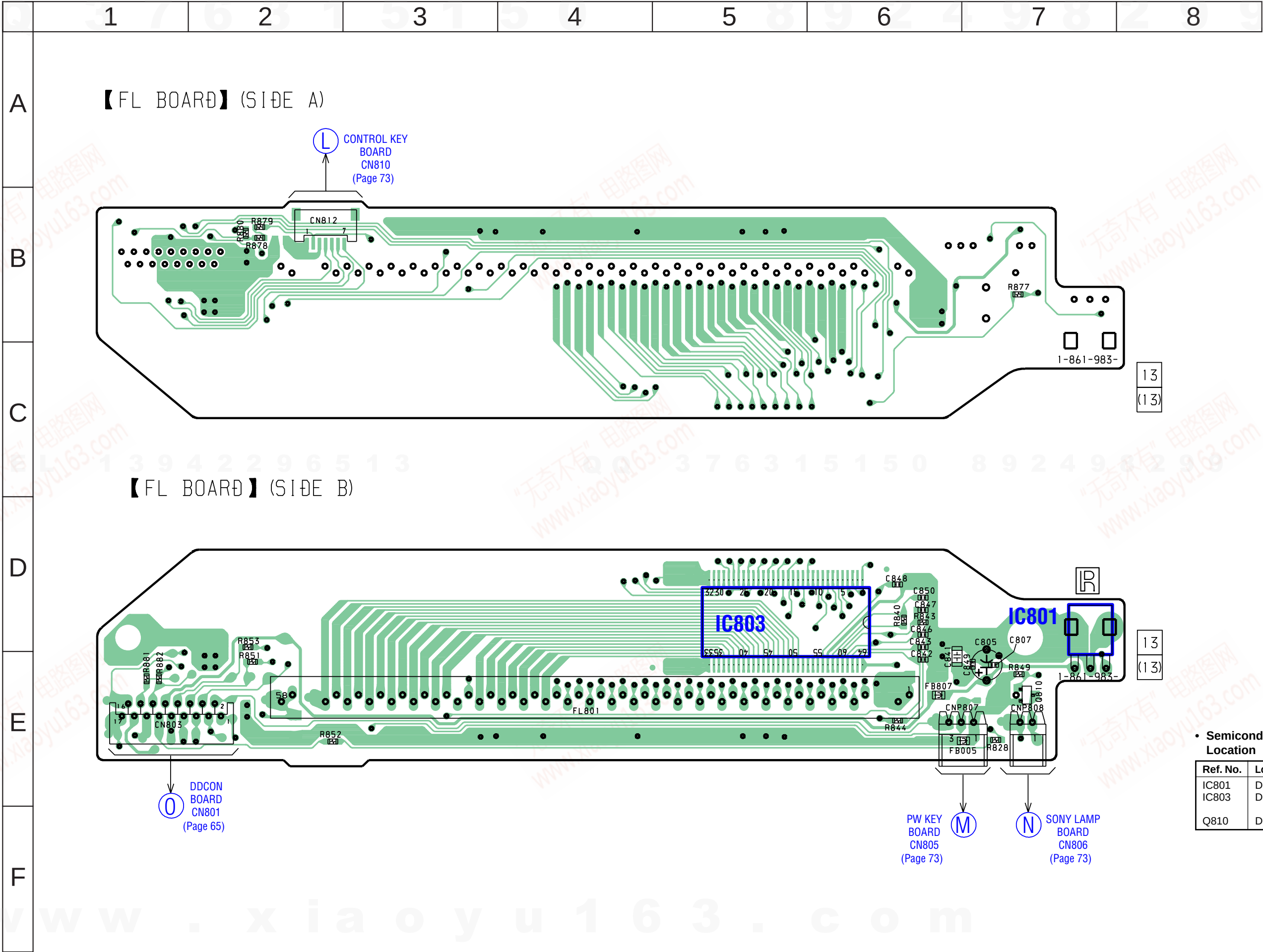
7-36. PRINTED WIRING BOARD — SPEAKER OUT SECTION — • See page 32 for Circuit Boards Location. :Uses unleaded solder.



7-37. SCHEMATIC DIAGRAM — SPEAKER OUT SECTION —



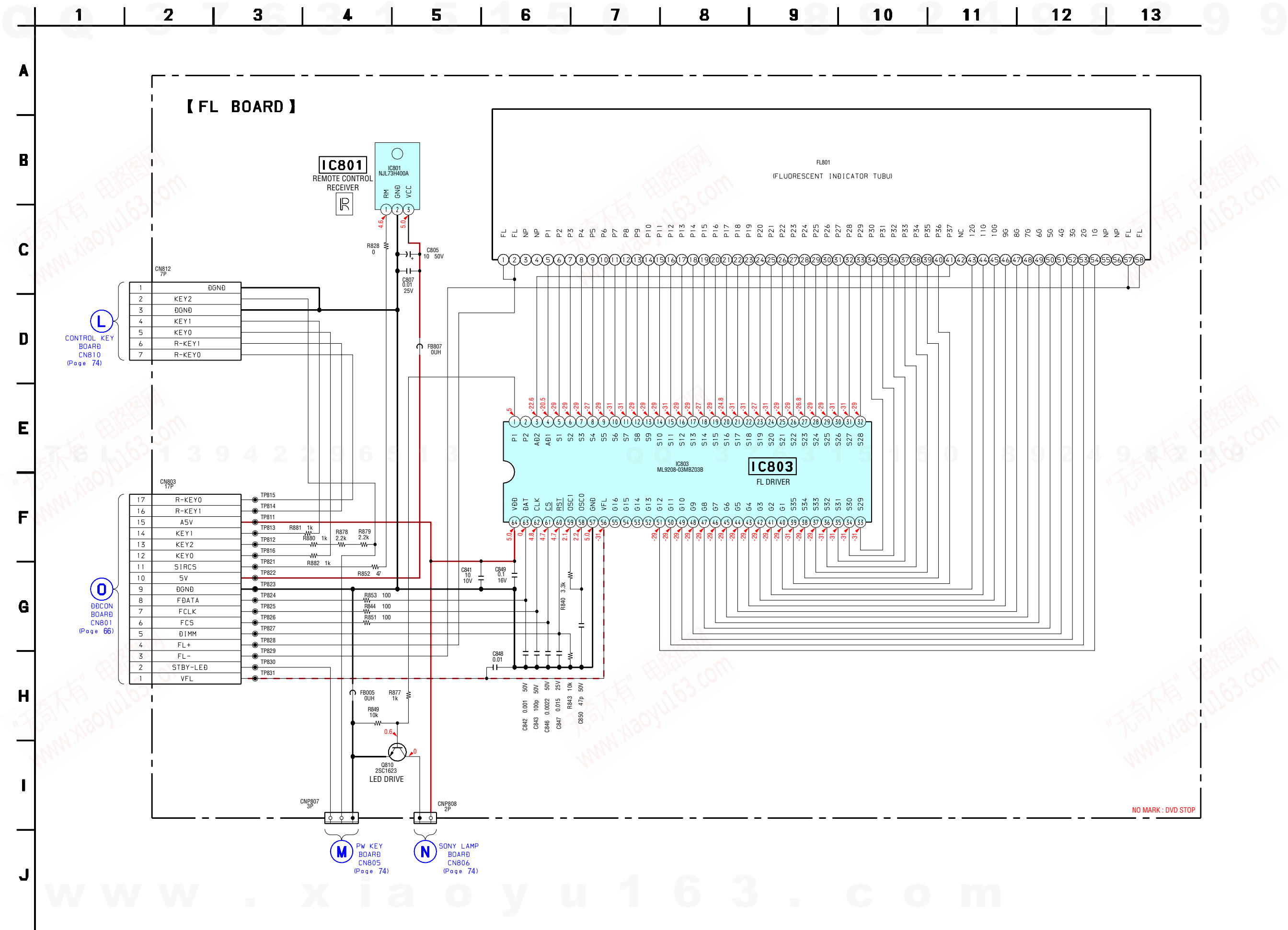
7-38. PRINTED WIRING BOARD — FL BOARD — • See page 32 for Circuit Boards Location.  :Uses unleaded solder.



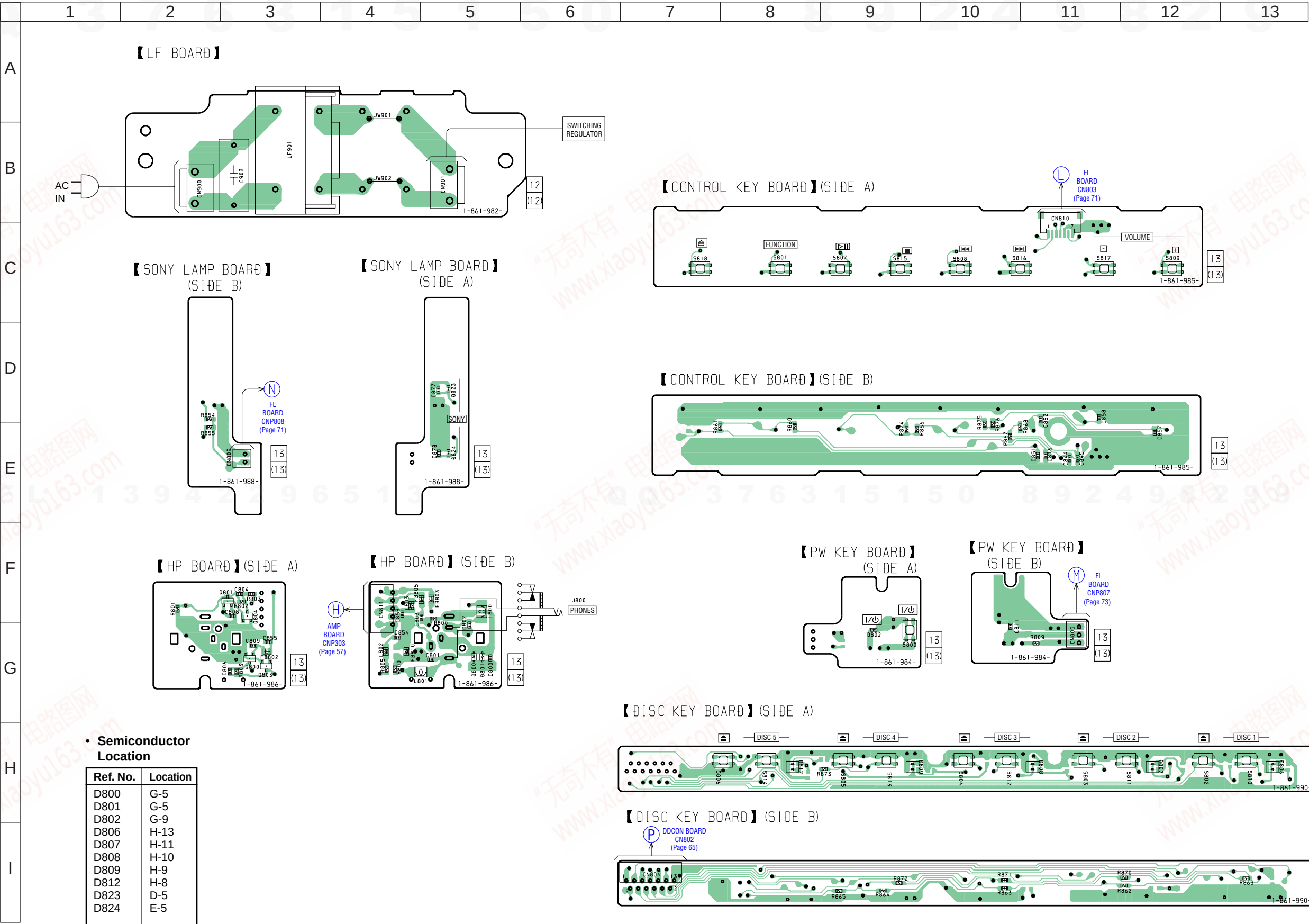
• Semiconductor Location

Ref. No.	Location
IC801	D-7
IC803	D-5
Q810	D-7

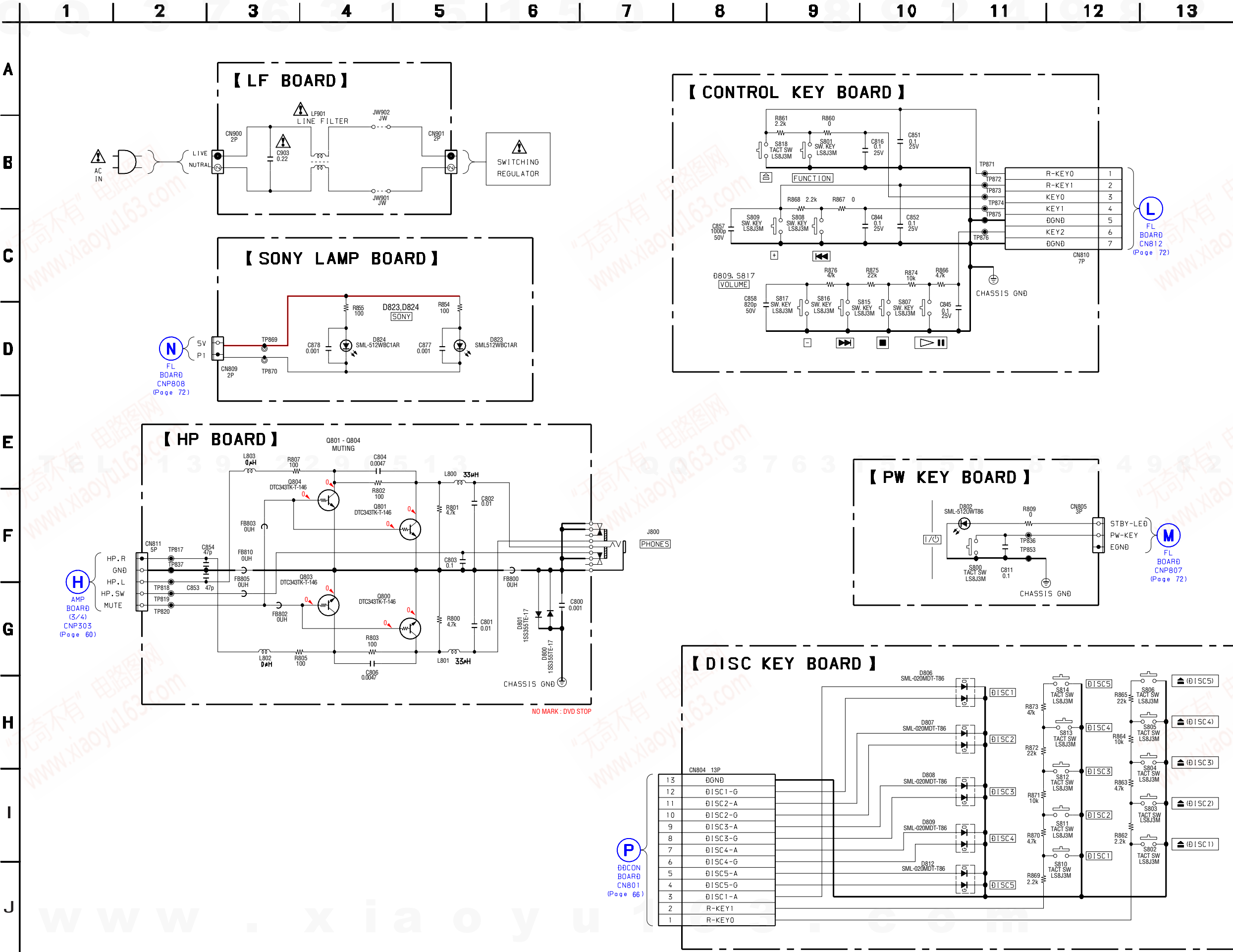
7-39. SCHEMATIC DIAGRAM — FL BOARD —



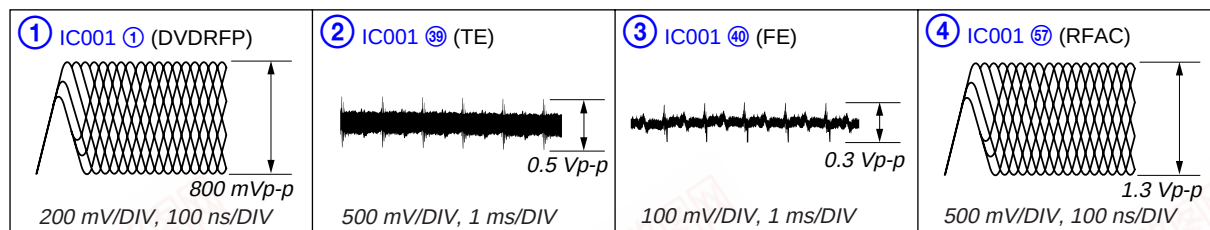
7-40. PRINTED WIRING BOARD — POWER/FRONT PANEL SECTION — • See page 32 for Circuit Boards Location. :Uses unleaded solder.



7-41. SCHEMATIC DIAGRAM — POWER/FRONT PANEL SECTION —

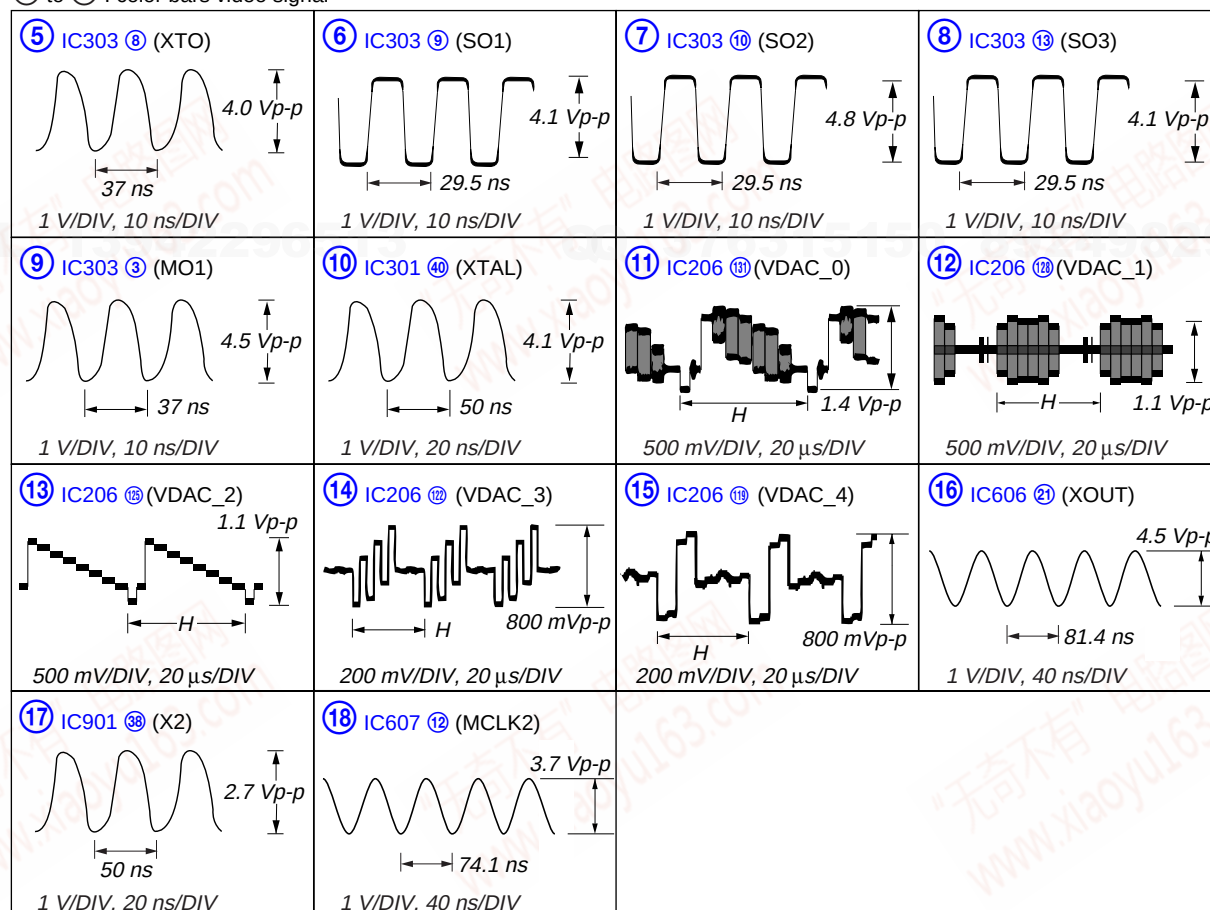


• Waveforms
– RF Board –



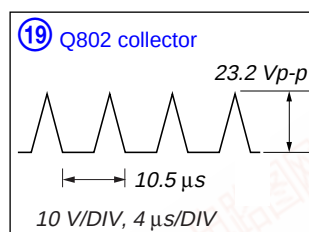
– DMB08 Board –

⑪ to ⑮ : color bars video signal

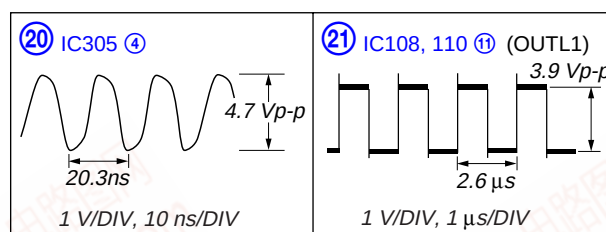


HCD-FR10W

– DDCOM Board –

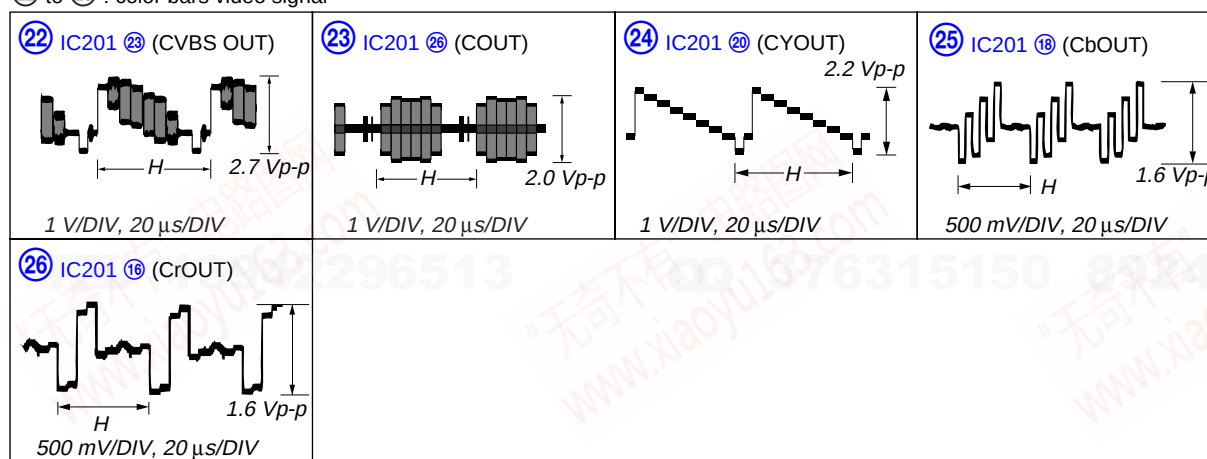


– AMP Board –

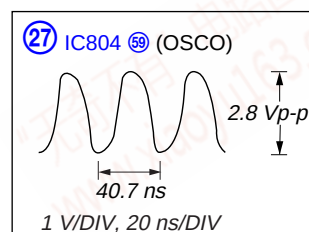


– IO Board –

②② to ②⑥ : color bars video signal



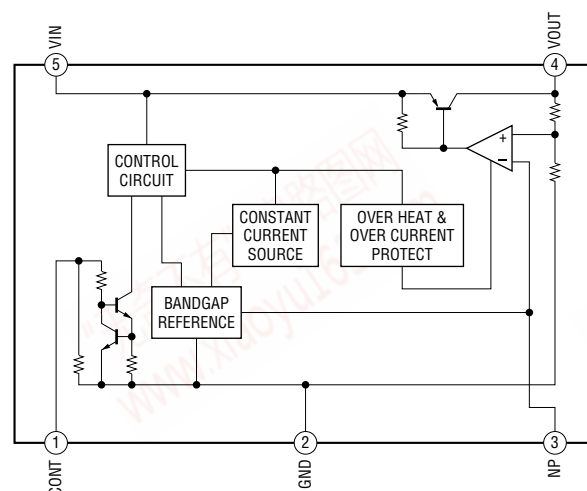
– DIAT TRANSMIT Board –



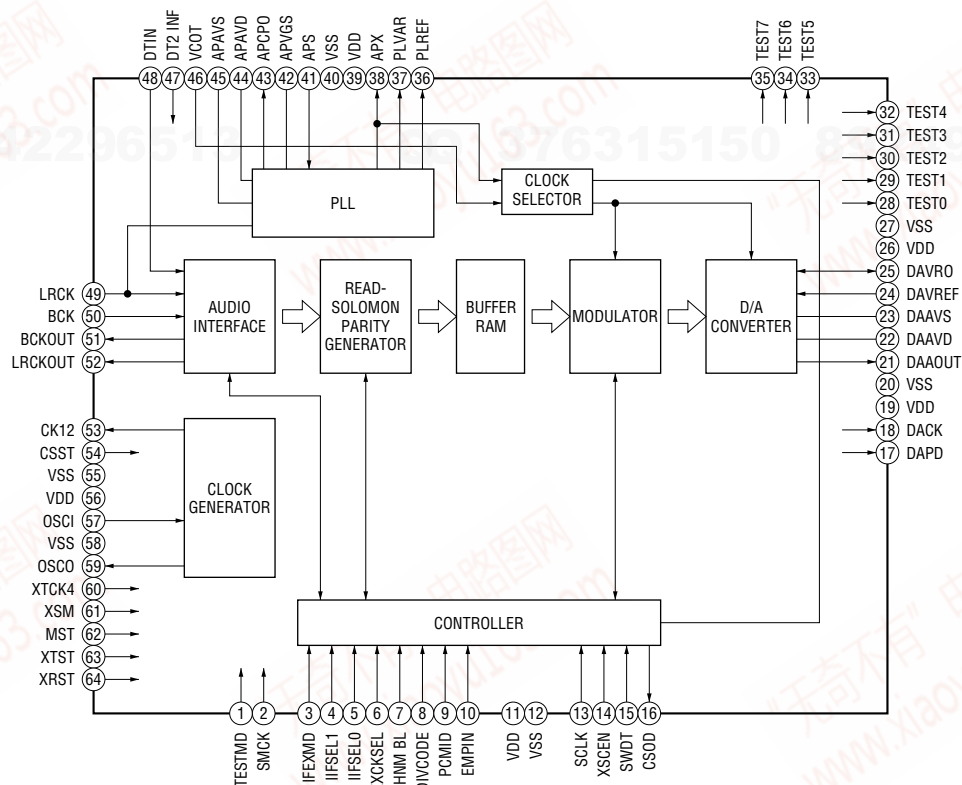
• IC Block Diagrams

– DIAT TRANSMIT Board –

IC801 TK11225CMCL-G



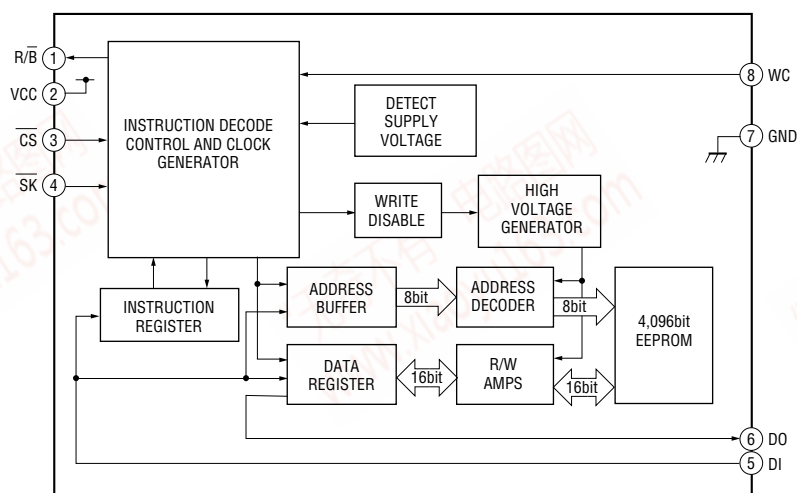
IC804 CXD4016R



HCD-FR10W

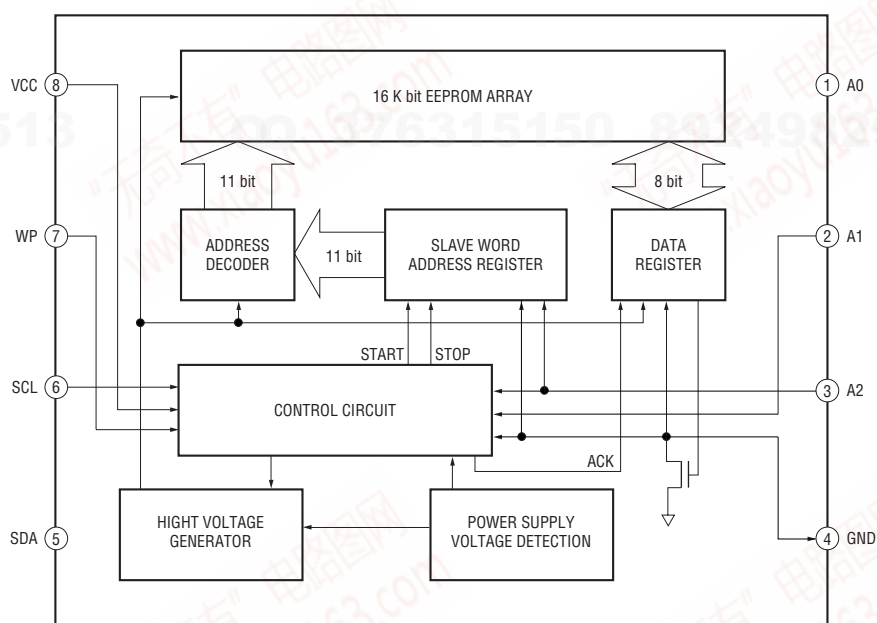
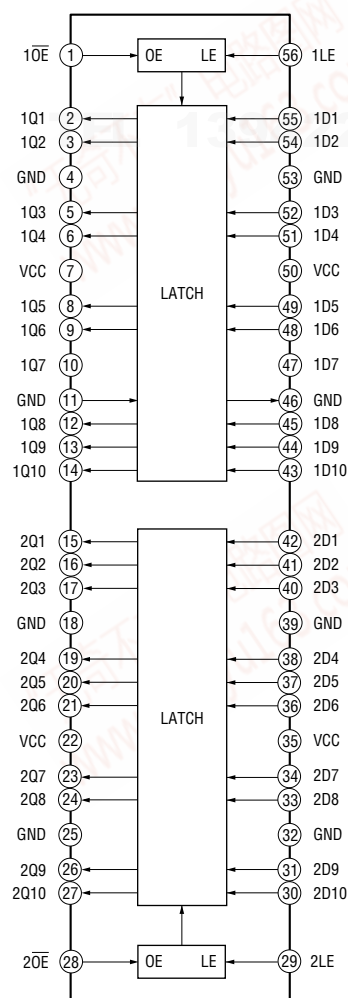
– DMB08 Board –

IC203 BR9040F-WE2

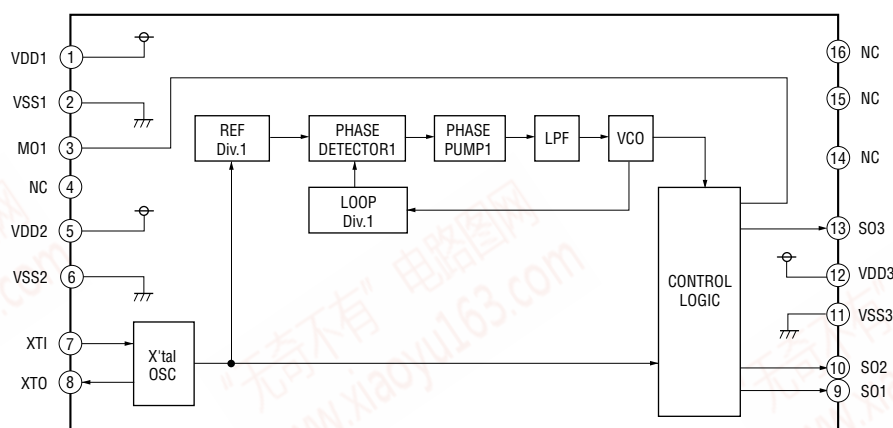
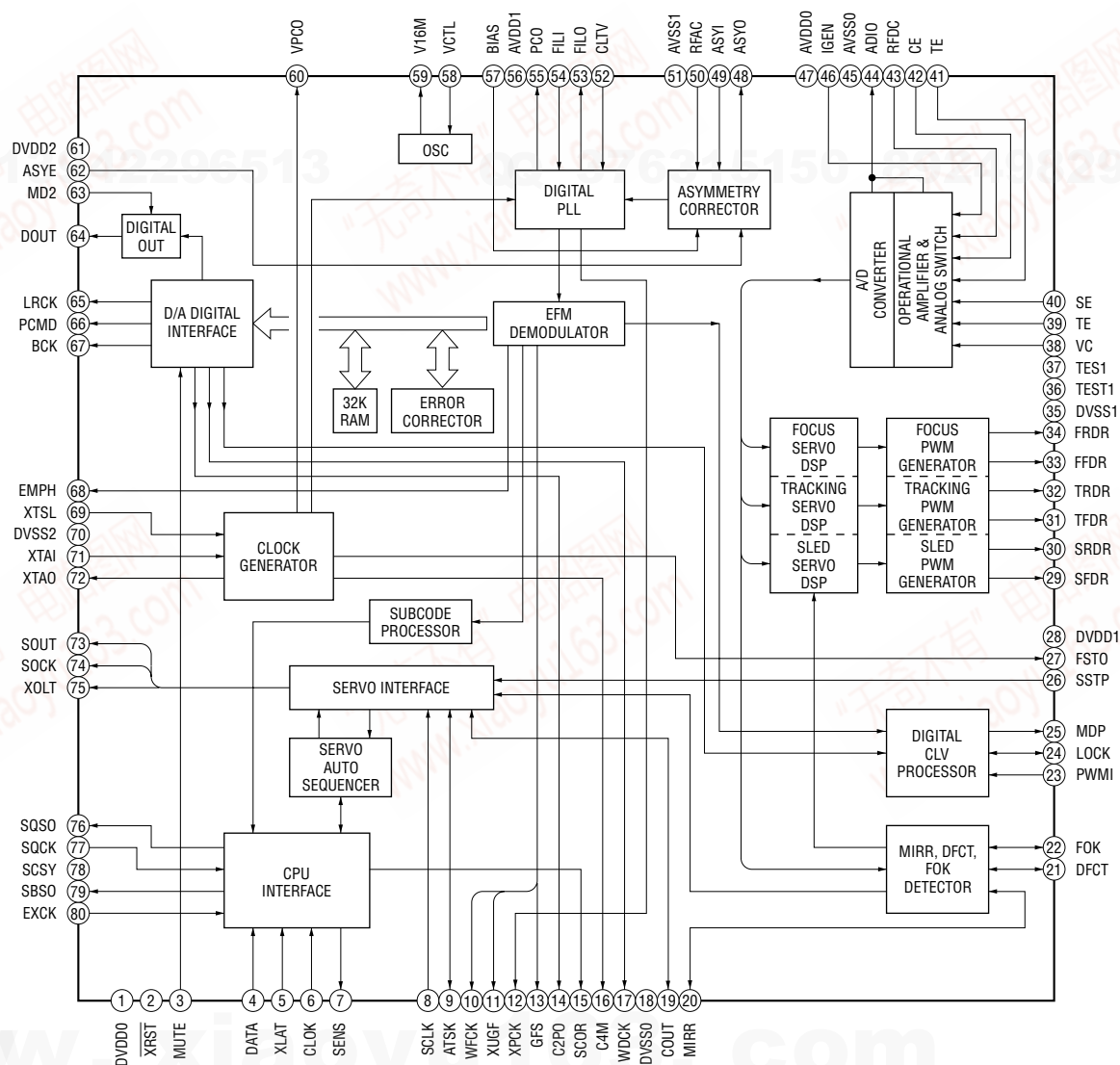


IC215 SN74ALVCH16841DGGR

IC302 BR24L16F-WE2



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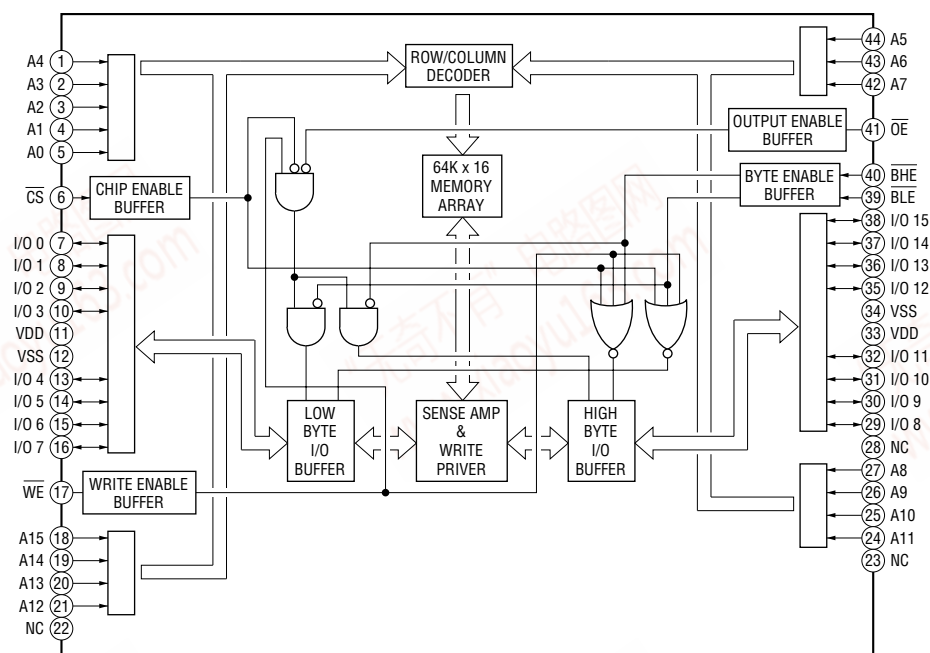
IC303 SM8707GV-G-E2

IC401 CXD3068Q


HCD-FR10W

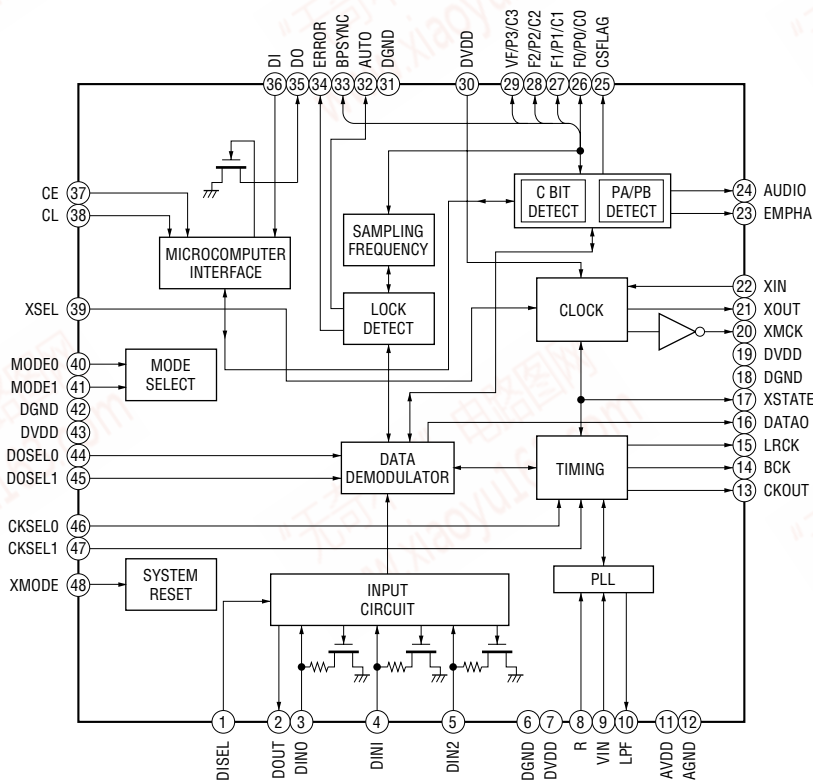
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IC604 IS61LV6416-10TLT

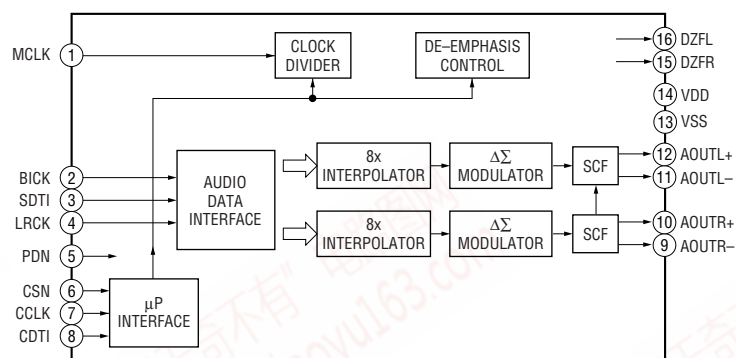
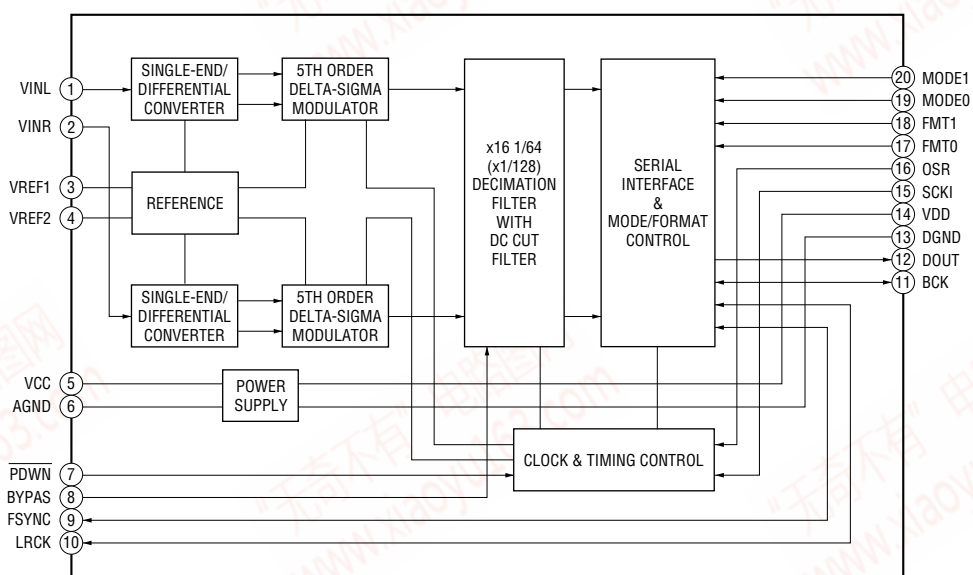


IC606 LC89056W-E



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IC608 AK4381VT-E2

IC609 PCM1802DBR


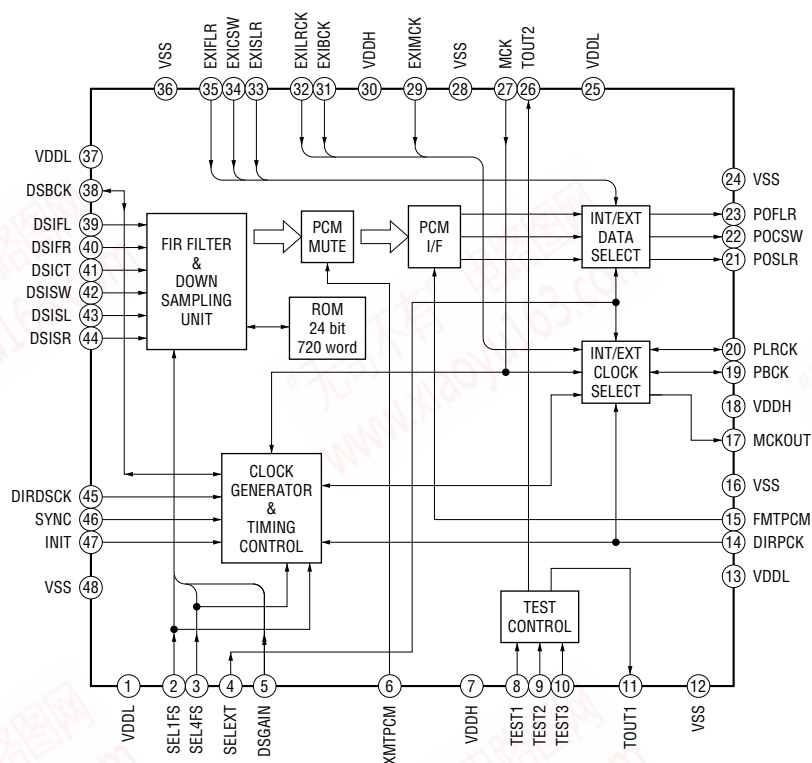
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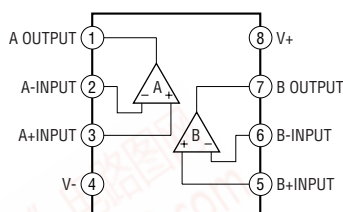
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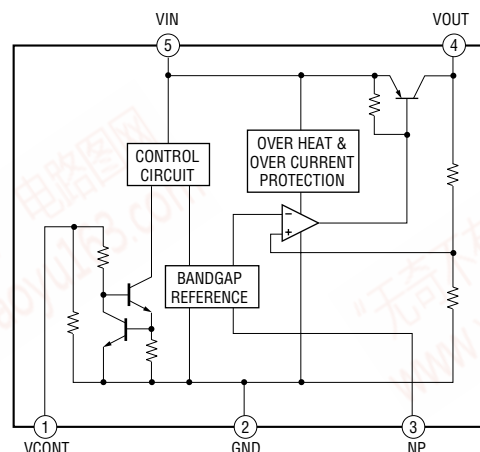
IC612 CXD9742Q



IC703 NJM3404AV (TE2)

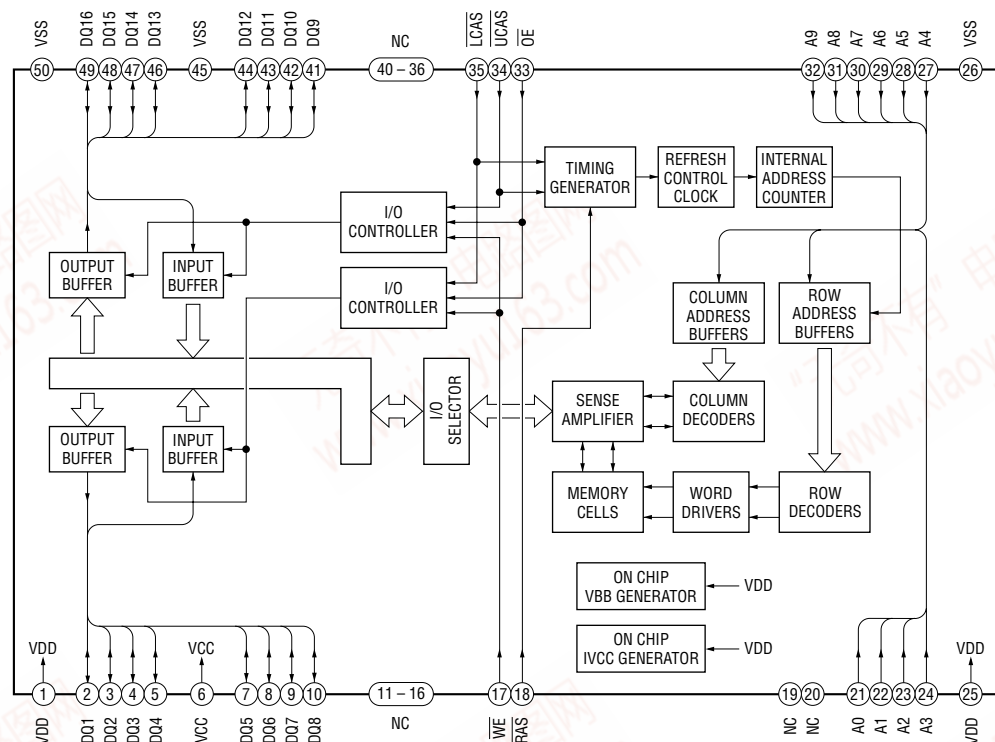
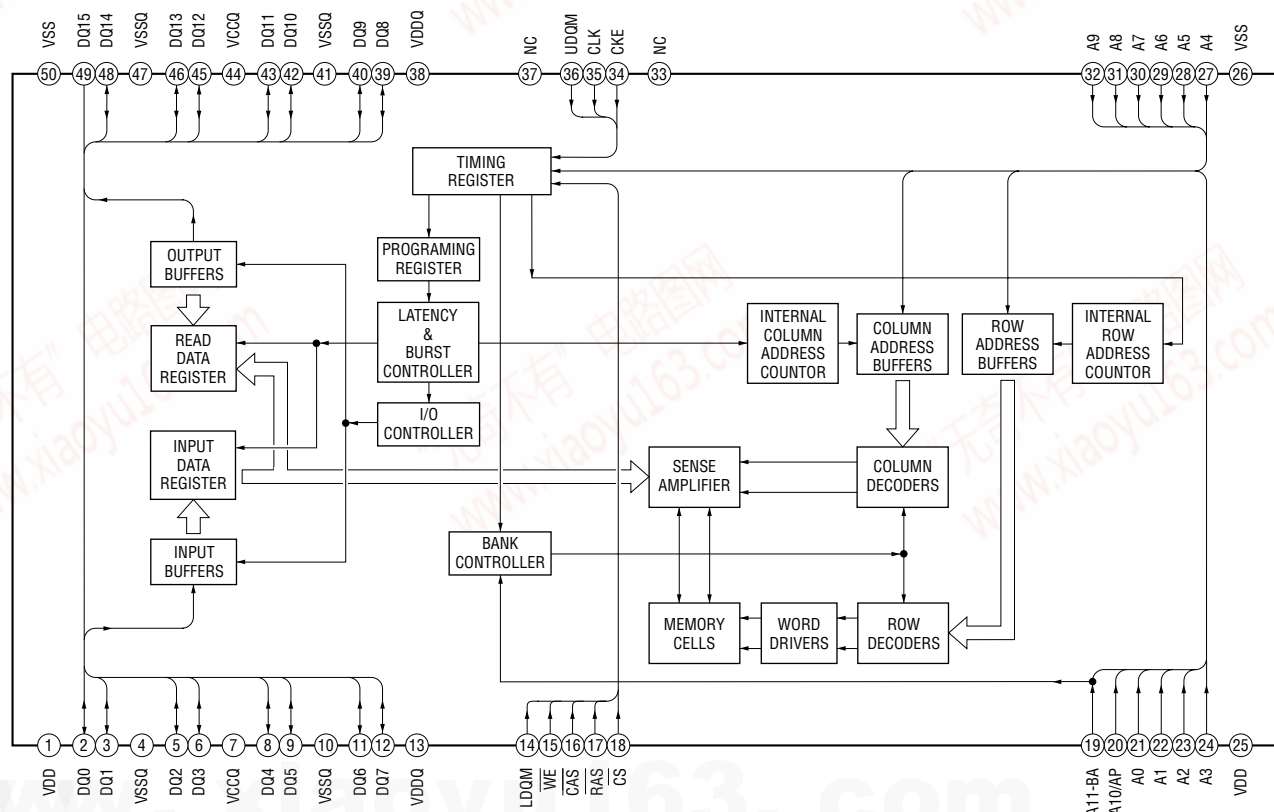


IC704 TK11125CSCL-G



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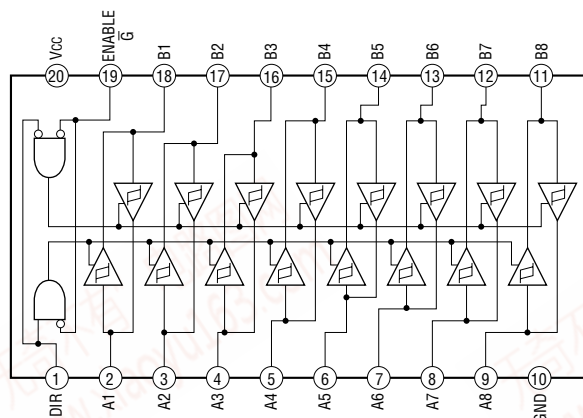
IC706 M51V18165M-60TS-KR1

IC808 MSM56V16160F-8TK7R1


HCD-FR10W

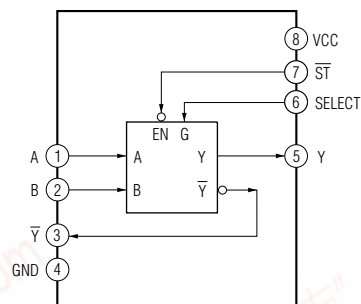
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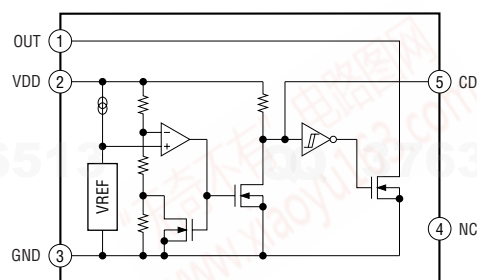
IC812, 813 SN74LV245APWR



IC814 TC7WH157FK (TE85R)

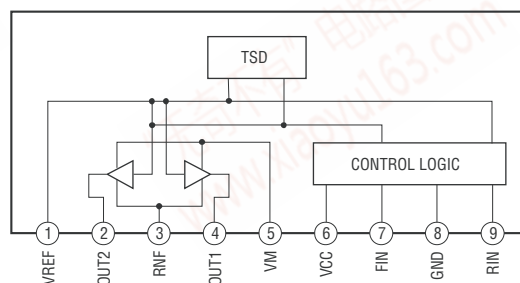


IC907 PST3645NR



– RELAY Board –

IC701, 711, 721 BA6956AN

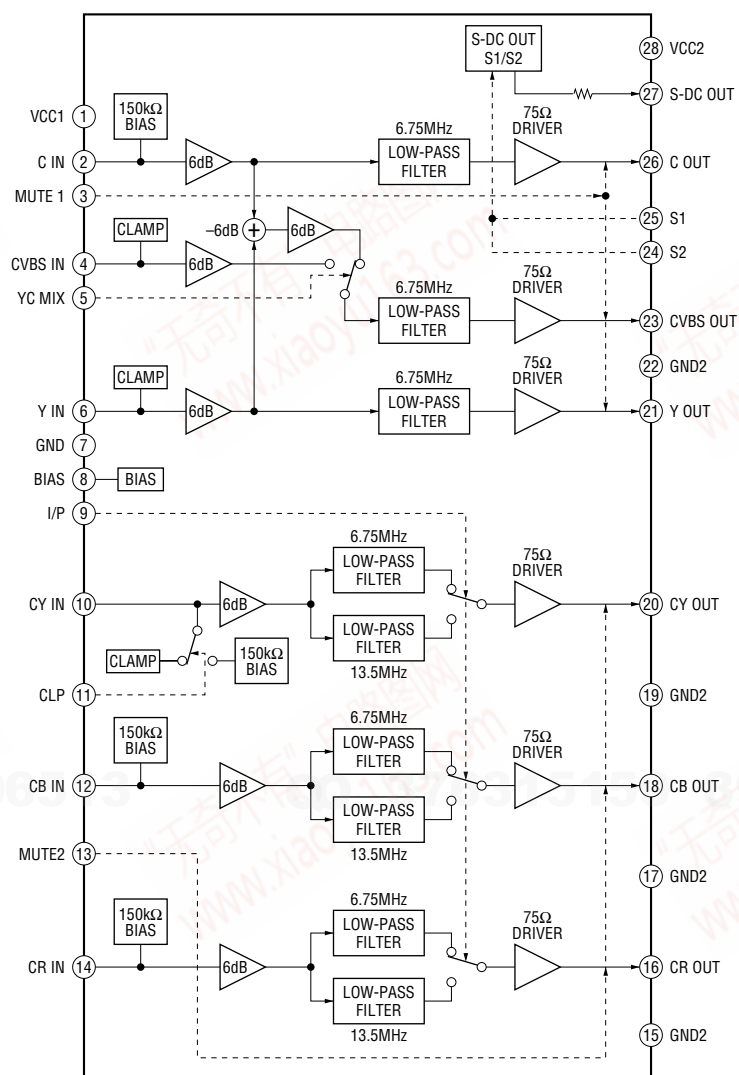


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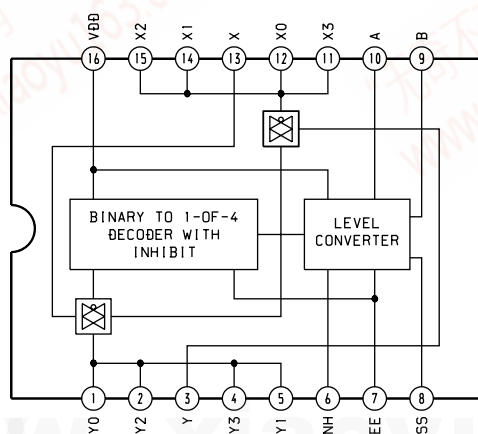
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– IO Board –

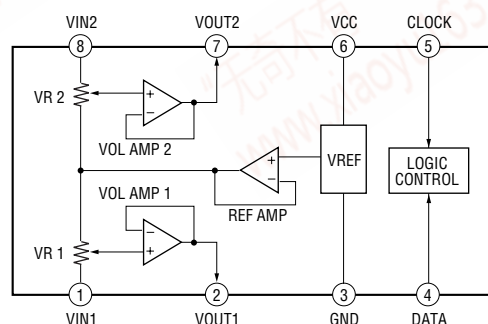
IC201 MM1623BFBE



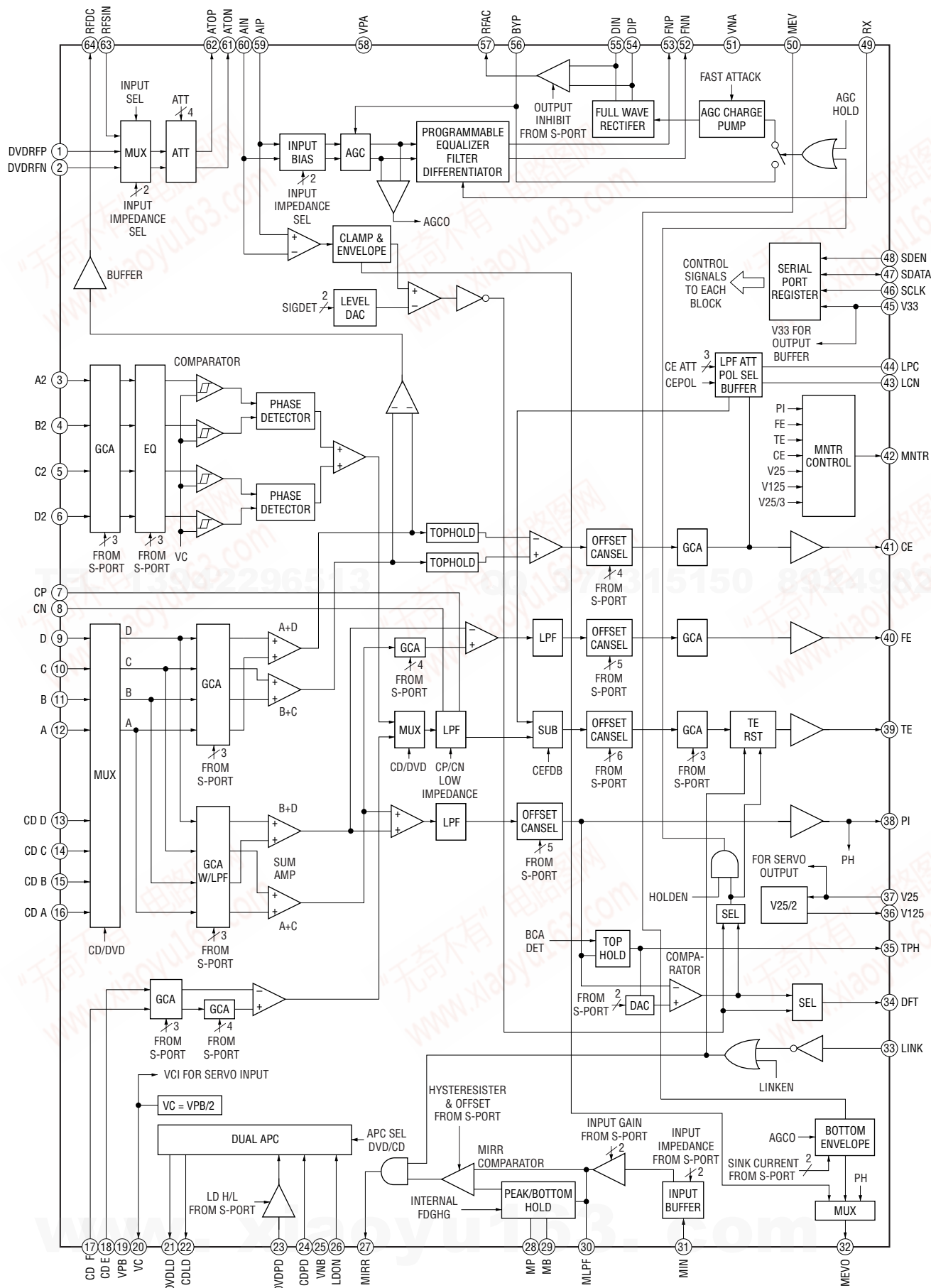
IC602 MC14052 BDR2



IC605 M62429FP-TP



IC001 SP3723CAF0PM



• IC Pin Function Description

DMB08 BOARD IC206 ZIVA5X-C2F (DVD SYSTEM PROCESSOR)

Pin No.	Pin Name	I/O	Description
1	VDDP	—	Power supply terminal (+3.3V) (I/O signal)
2	HA1	I/O	Address bus
3	HD15	I/O	Data bus (address signal multiplexed)
4	HD14	I/O	Data bus (address signal multiplexed)
5	HD13	I/O	Data bus (address signal multiplexed)
6	HD12	I/O	Data bus (address signal multiplexed)
7	HD11	I/O	Data bus (address signal multiplexed)
8	HD10	I/O	Data bus (address signal multiplexed)
9	HD9	I/O	Data bus (address signal multiplexed)
10	HD8	I/O	Data bus (address signal multiplexed)
11	HD7	I/O	Data bus (address signal multiplexed)
12	VDDP	—	Power supply terminal (+3.3V) (I/O signal)
13	GNDP	—	Ground terminal (I/O signal)
14	HD6	I/O	Data bus (address signal multiplexed)
15	HD5	I/O	Data bus (address signal multiplexed)
16	HD4	I/O	Data bus (address signal multiplexed)
17	HD3	I/O	Data bus (address signal multiplexed)
18	HD2	I/O	Data bus (address signal multiplexed)
19	HD1	I/O	Data bus (address signal multiplexed)
20	VDDP	—	Power supply terminal (+3.3V) (I/O signal)
21	GNDP	—	Ground terminal (I/O signal)
22	HD0	I/O	Data bus (address signal multiplexed)
23	HDTACK	I/O	Acknowledge signal input/output for host data transfer (not used)
24	HIRQ0	I	Interrupt signal input for Medusa (not used)
25	WEH.UDS	I/O	Host upper data strobe signal output
26	WEL.LDS	I/O	Host lower data strobe signal output (not used)
27	HREAD	I/O	Read/write strobe signal output
28	GPIO0	I/O	Jig detection port (pull-up)
29	GND	—	Ground terminal (inside core)
30	VDD	—	Power supply terminal (+1.8V) (inside core)
31	GND25	—	Ground terminal (SDRAM I/O signal)
32	VDD25	—	Power supply terminal (+3.3V) (SDRAM I/O signal)
33	MA9	O	SDRAM address bus
34	MA8	O	SDRAM address bus
35	MA7	O	SDRAM address bus
36	MA6	O	SDRAM address bus
37	MA5	O	SDRAM address bus
38	MA4	O	SDRAM address bus
39	MA3	O	SDRAM address bus
40	MA2	O	SDRAM address bus
41	MA1	O	SDRAM address bus
42	MA0	O	SDRAM address bus
43	GND25	—	Ground terminal (SDRAM I/O signal)
44	VDD25	—	Power supply terminal (+3.3V) (SDRAM I/O signal)
45	MA10	O	SDRAM address bus
46	MA11	O	SDRAM address bus
47	BA1	O	SDRAM bank select 1 signal output

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Pin No.	Pin Name	I/O	Description
48	BA0	O	SDRAM bank select 0 signal output
49	MCS0	O	SDRAM chip select 0 signal output
50	MCS1	O	Not used
51	MRAS	O	SDRAM row address strobe signal output
52	MCAS	O	SDRAM column address strobe signal output
53	MWE	O	SDRAM write enable signal output ("H" : read, "L" : write)
54	GND25	—	Ground terminal (SDRAM I/O signal)
55	VDD25	—	Power supply terminal (+3.3V) (SDRAM I/O signal)
56	MCLK	O	SDRAM Clock output
57	MD0	I/O	SDRAM data
58	MD1	I/O	SDRAM data
59	MD2	I/O	SDRAM data
60	MD3	I/O	SDRAM data
61	GND25	—	Ground terminal (SDRAM I/O signal)
62	MDQM0	O	Byte read /write mask signal 0 output
63	VDD25	—	Power supply terminal (+3.3V) (SDRAM I/O signal)
64	MD4	I/O	SDRAM data
65	MD5	I/O	SDRAM data
66	MD6	I/O	SDRAM data
67	MD7	I/O	SDRAM data
68	MD8	I/O	SDRAM data
69	MD9	I/O	SDRAM data
70	MD10	I/O	SDRAM data
71	MD11	I/O	SDRAM data
72	GND25	—	Ground terminal (SDRAM I/O signal)
73	MDQM1	O	Byte read /write mask signal 1 output
74	VDD25	—	Power supply terminal (+3.3V) (SDRAM I/O signal)
75	MD12	I/O	SDRAM data
76	MD13	I/O	SDRAM data
77	MD14	I/O	SDRAM data
78	MD15	I/O	SDRAM data
79	GND	—	Ground terminal (inside core)
80	VDD	—	Power supply terminal (+1.8V) (inside core)
81	MD16	I/O	SDRAM data
82	MD17	I/O	SDRAM data
83	MD18	I/O	SDRAM data
84	MD19	I/O	SDRAM data
85	GND25	—	Ground terminal (SDRAM I/O signal)
86	MDQM2	O	Byte read /write mask signal 2 output
87	VDD25	—	Power supply terminal (+3.3V) (SDRAM I/O signal)
88	MD20	I/O	SDRAM data
89	MD21	I/O	SDRAM data
90	MD22	I/O	SDRAM data
91	MD23	I/O	SDRAM data
92	MD24	I/O	SDRAM data
93	MD25	I/O	SDRAM data
94	MD26	I/O	SDRAM data

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Pin No.	Pin Name	I/O	Description
95	MD27	I/O	SDRAM data
96	GND25	—	Ground terminal (SDRAM I/O signal)
97	MDQM3	O	Byte read /write mask signal 3 output
98	VDD25	—	Power supply terminal (+3.3V) (SDRAM I/O signal)
99	MD28	I/O	SDRAM data
100	MD29	I/O	SDRAM data
101	MD30	I/O	SDRAM data
102	MD31	I/O	SDRAM data
103	GND25	—	Ground terminal (SDRAM I/O signal)
104	VDD25	—	Power supply terminal (+3.3V) (SDRAM I/O signal)
105	VCLK	I/O	System clock (not used)
106	I2C_CTRL	—	Not used
107	VS	O	S1 signal output
108	I/P SW	O	Progressive/interlace switch signal output (not used)
109	GPIO1 (5)	—	Not used
110	GPIO1 (4)	—	Not used
111	VDDP	—	Power supply terminal (+3.3V) (I/O signal)
112	GNDP	—	Ground terminal (I/O signal)
113	GPIO1 (3)	—	Not used
114	GPIO1 (2)	—	Not used
115	GPIO1 (1)	—	Not used
116	HIRQ2_	I	Busy signal input from the EEPROM (IC203)
117	VDAC_4B	—	Video DAC bias bit 4 (connected to the ground)
118	VDAC_VDD4	—	Power supply terminal (+3.3V) (Video DAC 4)
119	VDAC_4	O	VDAC output 4
120	VDAC_3B	—	Video DAC bias bit 3 (connected to the ground)
121	VDAC_VDD3	—	Power supply terminal (+3.3V) (Video DAC 3)
122	VDAC_3	O	VDAC output 3
123	VDAC_2B	—	Video DAC bias bit 2 (connected to the ground)
124	VDAC_VDD2	—	Power supply terminal (+3.3V) (Video DAC 2)
125	VDAC_2	O	VDAC output 2
126	VDAC_1B	—	Video DAC bias bit 1 (connected to the ground)
127	VDAC_VDD1	—	Power supply terminal (+3.3V) (Video DAC 1)
128	VDAC_1	O	VDAC output 1
129	VDAC_0B	—	Video DAC bias bit 0 (connected to the ground)
130	VDAC_VDD0	—	Power supply terminal (+3.3V) (Video DAC 0)
131	VDAC_0	O	VDAC output 0
132	VDAC_DVSS	—	Ground terminal (Video DAC digital system)
133	VDAC_DVDD	—	Power supply terminal (+3.3V) (Video DAC digital system)
134	VDAC_REFVDD	—	Power supply terminal (Video DAC reference)
135	VDAC_REF	I	Reference voltage input terminal(for Video DAC)
136	VDAC_REFVSS	—	Ground terminal (Video DAC reference)
137	XVSS	—	Ground terminal (crystal oscillator)
138	XOUT	O	Crystal oscillation signal output
139	XIN	I	Crystal oscillation signal input
140	XVDD	—	Power supply terminal (crystal oscillator)
141	AVSS2	—	Ground terminal (analog PLL)

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Pin No.	Pin Name	I/O	Description
142	AVDD2	—	Power supply terminal (+3.3V) (analog PLL)
143	AVDD1	—	Power supply terminal (+3.3V) (analog PLL)
144	AVSS1	—	Ground terminal (analog PLL)
145	VDD	—	Power supply terminal (+1.8V) (inside core)
146	GND	—	Ground terminal (inside core)
147	XCK	O	Audio system clock output (not used)
148	LRCK	O	LRCK signal output for audio (not used)
149	BCK	O	BCK signal output for audio (not used)
150	GPIO4 (1)	—	Not used (pull-up)
151	GPIO4 (2)	—	Not used (pull-up)
152	VDDP	—	Power supply terminal (+3.3V) (I/O signal)
153	GNDP	—	Ground terminal (I/O signal)
154	GPIO4 (3)	—	Not used (pull-down)
155	GPIO4 (4)	—	Not used (pull-down)
156	IEC958	O	S/PDIF signal
157	DAI_DATA	I	Data input from ADC (not used)
158	DAI_BCK	I	BCK signal input from ADC (not used)
159	DAI_LRCK	I	LRCK signal input from ADC (not used)
160	I2C_CL	I/O	I2C clock bus
161	I2C_DA	I/O	I2C data bus
162	CS(ZIVA_E2P)	O	Chip select signal output to the EEPROM (IC203)
163	RXD1	I	Serial data input for check jig
164	TXD1	O	Serial data output for check jig
165	WRITE_CTRL(ZIVA_E2P)	O	Write control signal output to the EEPROM (IC203)
166	GNDP	—	Ground terminal (I/O signal)
167	VDDP	—	Power supply terminal (+3.3V) (I/O signal)
168	SDDATA7	I	SDBus data7 input
169	SDDATA6	I	SDBus data6 input
170	SDDATA5	I	SDBus data5 input
171	SDDATA4	I	SDBus data4 input
172	GND	—	Ground terminal (inside core)
173	VDD	—	Power supply terminal (+1.8V) (inside core)
174	SDDATA3	I	SDBus data3 input
175	SDDATA2	I	SDBus data2 input
176	SDDATA1	I	SDBus data1 input
177	SDDATA0	I	SDBus data0 input
178	SDREQ	O	SDBus data request signal output
179	SDEN	I	SDBus data enable signal input
180	GNDP	—	Ground terminal (I/O signal)
181	VDDP	—	Power supply terminal (+3.3V) (I/O signal)
182	SDERROR	I	SDBus data error signal input
183	SDCLK	I	SDBus data clock input
184	HIRQ1	I	Interrupt signal input from the mechanism controller (IC301)
185	DRVCLK	I	Serial data clock input from the mechanism controller (IC301)
186	DRVTX	I	Serial data input from the mechanism controller (IC301) and the EEPROM (IC203)
187	DRVRX	O	Serial data output to the mechanism controller (IC301) and the EEPROM (IC203)
188	DRVRDY	I	Ready signal input from the mechanism controller (IC301)

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Pin No.	Pin Name	I/O	Description
189	VNW	—	Power supply for 5V tolerance voltage input
190	ALE	O	Latch enable signal output for address data demux
191	RST_SPC	O	Reset signal output to the mechanism controller (IC301)
192	HCS3	O	Not used
193	HCS2	O	Chip select signal output for Medusa (not used)
194	HCS1	I/O	Not used
195	HCS0	O	Chip select signal output to the external ROM (IC205)
196	VDDP	—	Power supply terminal (+3.3V) (I/O signal)
197	TRST	I	Reset signal input
198	TDO	O	Data output
199	TDI	I	Data input
200	TMS	I	TMS signal input
201	TCK	I	TCK signal input
202	RESET	I	ZIVA reset input
203	BUS CLK	I/O	Not used
204	GND	—	Ground terminal (inside core)
205	VDD	—	Power supply terminal (+1.8V) (inside core)
206	HA3	I/O	Address bus 3
207	HA2	I/O	Address bus 2
208	GNDP	—	Ground terminal (I/O signal)

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HCD-FR10W**DMB08 BOARD IC301 CXP973064-245R (MECHANISH CONTROLLER)**

Pin No.	Pin Name	I/O	Description
1	EEP SO	O	Not used
2	SDEN	O	Serial data enable signal output to DVD/CD RF amplifier
3	DOCTRL/ISBTTEST	O	Digital out on/off control signal output to the digital signal processor “L”: digital out off, “H”: digital out on
4	XRST DSD	O	Reset signal output to the DSD decoder “L”: reset
5	EEP SI	I/O	Two-way data bus with the EEPROM
6	EEP RDY	I	EEPROM ready signal input from the DVD decoder
7	FCS JMP 1	O	Focus jump 1 signal output to the motor/coil driver
8	FCS JMP 2	O	Focus jump 2 signal output to the motor/coil driver
9	SENS CD	I	Internal status (SENSE) signal input from the digital signal processor
10	CDSP2	O	Clock selection signal output to the digital signal processor
11	CDSP4	—	Not used
12	XCS DVD	O	Chip select signal output to the DVD decoder
13	VSS	—	Ground terminal (digital system)
14 to 21	D0 to D7	I/O	Two-way data bus with the DVD decoder
22	INIT0 DVD	I	Interrupt signal input from the DVD decoder
23	INIT1 DVD	I	Interrupt signal input from the DVD decoder
24	SCK DSD	O	Serial data transfer clock signal output to the DSD decoder
25	XRST DVD	O	Reset signal output to the DVD decoder “L”: reset
26	SCOR	I	Subcode sync (S0+S1) detection signal input from the digital signal processor
27	LAT CD	O	Serial data latch pulse signal output to the digital signal processor
28	LD ON	O	Laser diode on/off control signal output to the DVD/CD RF amplifier “L”: laser diode off, “H”: laser diode on
29	MIRR	I	Mirror signal input from the digital signal processor
30	COUT CD	I	Numbers of track counted signal input from the digital signal processor
31	INLIM	I	Detection signal input from limit in switch The optical pick-up is inner position when “H”
32	CS ZIVA	O	Chip select signal output to the DVD system processor
33	SI ZIVA	I	Serial data input from the DVD system processor
34	SO ZIVA	O	Serial data output to the DVD system processor
35	SCK ZIVA	O	Serial data transfer clock signal output to the DVD system processor
36	DRVIRQ	O	Interrupt request signal output to the DVD system processor
37	DRVRDY	O	Ready signal output to the DVD system processor
38	RST	I	System reset signal input from the DVD system processor “L”: reset
39	VSS	—	Ground terminal (digital system)
40	XTAL	I	System clock input terminal (20 MHz)
41	EXTAL	O	System clock output terminal (20 MHz)
42	VDD	—	Power supply terminal (+3.3V) (digital system)
43, 44	SLED A, SLED B	O	Sled motor drive signal output
45	JIT OFFSET	O	Output terminal for offset adjustment of APEO (⑩ pin of DVD decoder)
46	SDOUT DSD	O	Serial data output to the DSD decoder
47	SDIN DSD	I	Serial data input from the DSD decoder
48	READY DSD	I	Ready signal input from the DSD decoder “L”: ready
49	DATA CD	O	Serial data output to the digital signal processor
50	CLOCK CD	O	Serial data transfer clock signal output to the digital signal processor
51	XMSLAT	O	Serial data latch pulse signal output to the DSD decoder
52	SQSO	I	Subcode Q data input from the digital signal processor

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Pin No.	Pin Name	I/O	Description
53	MUTE DSD	O	Muting on/off control signal output to the DSD decoder "H": muting on
54	SQCK	O	Subcode Q data reading clock signal output to the digital signal processor
55	VSS	—	Ground terminal (digital system)
56	TRAY IN	I	Disc tray in detection signal input terminal Not used
57	TRAY OUT	I	Disc tray out detection signal input terminal Not used
58	GFS DVD	I	Guard frame sync signal input from the DVD decoder
59	MUTE CD	O	Muting on/off control signal output to the digital signal processor "H": muting on
60	MUTE 2D	O	Muting on/off control signal output to the motor/coil driver "H": muting on
61	SLED	I	Sled motor servo drive PWM signal input terminal
62	FG	I	Spindle motor control signal input
63	SP ON	O	Muting on/off control signal output to the motor/coil driver "H": muting on
64	JIT	I	Jitter signal input
65	TE	I	Tracking error signal input from the DVD/CD RF amplifier
66	PI	I	Pull in signal input from the DVD/CD RF amplifier
67	FE	I	Focus error signal input from the DVD/CD RF amplifier
68	AVSS	—	Ground terminal (for A/D converter)
69	AVREF	I	Reference voltage input terminal (for A/D converter)
70	AVDD	—	Power supply terminal (+3.3V) (for A/D converter)
71	GFS CD	I	Guard frame sync signal input from the digital signal processor
72	SCLK CD	O	SENSE serial data reading clock signal output to the digital signal processor
73	TSD-M	O	Thermal shut down signal output to the motor/coil driver
74	FOK CD	I	Focus OK signal input from the digital signal processor
75	LOCK CD	I	GFS is sampled by 460 Hz "H" input when GFS is "H"
76	LDSEL	O	Laser diode selection signal output
77	SACD/DVD	O	SACD/DVD selection signal output "L": DVD, "H": SACD
78	I2C SIO	I/O	Communication data bus with the DVD system processor and system controller
79	IIC-CLK	I/O	Communication data reading clock signal input or transfer clock signal output with the DVD system processor and system controller
80	RXD	I	Serial data input from the RS-232C (for check)
81	TXD	O	Serial data output to the RS-232C (for check)
82	SDCLK RF	O	Serial data transfer clock signal output to the DVD/CD RF amplifier
83	SDATA RF	I/O	Two-way data bus with the DVD/CD RF amplifier
84	XWR	O	Write strobe signal output to the DVD decoder
85	XRD	O	Read strobe signal output to the DVD decoder
86	(PWE)	—	Not used
87	VDD	—	Power supply terminal (+3.3V) (digital system)
88	VSS	—	Ground terminal (digital system)
89 to 96	A0 to A7	O	Address signal output to the DVD decoder
97	A8	O	Motor/coil driver power save control signal output terminal Not used
98	XDRST	O	Reset signal output to the digital signal processor "L": reset
99	EEP WP	O	Write protect signal output to the EEPROM
100	EEP CLK	I	Clock signal output to the EEPROM

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HCD-FR10W**DMB08 BOARD IC401 CXD3068Q (DIGITAL SIGNAL PROCESSOR, DIGITAL SERVO PROCESSOR)**

Pin No.	Pin Name	I/O	Description
1	DVDD0	—	Power supply terminal (+3.3V) (digital system)
2	XRST	I	Reset signal input from the mechanism controller “L”: reset
3	MUTE	I	Muting on/off control signal input from the mechanism controller “H”: muting on
4	DATA	I	Serial data input from the mechanism controller
5	XLAT	I	Serial data latch pulse signal input from the mechanism controller
6	CLOCK	I	Serial data transfer clock signal input from the mechanism controller
7	SENS	O	Internal status (SENSE) signal output to the mechanism controller
8	SCLK	I	SENSE serial data reading clock signal input from the mechanism controller
9	ATSK	I/O	Input/output terminal for anti-shock Not used
10	WFCK	O	Write frame clock signal output to the DVD decoder
11	RFCK	O	RFCK signal output terminal Not used
12	XPCCK	O	XPCCK signal output terminal Not used
13	GFS	O	Guard frame sync signal output to the mechanism controller
14	C2PO	O	C2 pointer signal output to the DVD decoder
15	SCOR	O	Subcode sync (S0+S1) detection signal output to the DVD decoder and mechanism controller
16	C4M	O	4.2336 MHz clock signal output terminal Not used
17	WDCK	O	Guard subcode sync (S0+S1) detection signal output to the DVD decoder
18	DVSS0	—	Ground terminal (digital system)
19	COUT	O	Numbers of track counted signal output to the mechanism controller
20	MIRR	O	Mirror signal output to the mechanism controller
21	DFCT	I/O	Defect signal input/output terminal Not used
22	FOK	O	Focus OK signal output to the mechanism controller
23	PWMI	I	Spindle motor external control signal input terminal Not used
24	LOCK	O	GFS is sampled by 460 Hz “H” output when GFS is “H”
25	MDP	O	Spindle motor servo drive signal output to the DVD decoder
26	SSTP	I	Detection signal input from limit in switch The optical pick-up is inner position when “H”
27	FSTO	O	2/3 divider output terminal Not used
28	DVDD1	—	Power supply terminal (+3.3V) (digital system)
29	SFDR	O	Sled servo drive PWM signal (+) output
30	SRDR	O	Sled servo drive PWM signal (–) output
31	TFDR	O	Tracking servo drive PWM signal (+) output
32	TRDR	O	Tracking servo drive PWM signal (–) output
33	FFDR	O	Focus servo drive PWM signal (+) output
34	FRDR	O	Focus servo drive PWM signal (–) output
35	DVSS1	—	Ground terminal (digital system)
36	TEST	I	Input terminal for the test
37	TES1	I	Input terminal for the test
38	VC	I	Middle point voltage (+1.65V) input terminal
39	FE	I	Focus error signal input from the DVD/CD RF amplifier
40	SE	I	Sled error signal input from the DVD/CD RF amplifier
41	TE	I	Tracking error signal input from the DVD/CD RF amplifier
42	CE	I	Middle point servo analog signal input
43	RFDC	I	RF signal input from the DVD/CD RF amplifier
44	ADIO	O	Output terminal for the test Not used
45	AVSS0	—	Ground terminal (analog system)

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Pin No.	Pin Name	I/O	Description
46	IGEN	I	Stabilized current input for operational amplifiers
47	AVDD0	—	Power supply terminal (+3.3V) (analog system)
48	ASYO	O	EFM full-swing output terminal
49	ASYI	I	Asymmetry comparator voltage input terminal
50	RFAC	I	EFM signal input from the DVD/CD RF amplifier
51	AVSS1	—	Ground terminal (analog system)
52	CLTV	I	Internal VCO control voltage input terminal
53	FILO	O	Filter output for master PLL
54	FILI	I	Filter input for master PLL
55	PCO	O	Charge pump output for master PLL
56	AVDD1	—	Power supply terminal (+3.3V) (analog system)
57	BIAS	I	Asymmetry circuit constant current input terminal
58	VCTL	I	VCO control voltage input terminal for the wideband EFM PLL Not used
59	V16M	O	VCO oscillation output terminal for the wideband EFM PLL Not used
60	VPCO	O	Charge pump output terminal for the wideband EFM PLL Not used
61	DVDD2	—	Power supply terminal (+3.3V) (digital system)
62	ASYE	I	Asymmetry circuit on/off control signal input terminal "L": off, "H": on Not used
63	MD2	I	Digital out on/off control signal input from the mechanism controller "L": digital out off, "H": digital out on
64	DOUT	O	Digital audio signal output to the digital audio interface IC
65	LRCK	O	L/R sampling clock signal (44.1 kHz) output to the DVD decoder
66	PCMD	O	Serial data output to the DVD decoder
67	BCLK	O	Bit clock signal (2.8224 MHz) output to the DVD decoder
68	EMPH	O	"L" is output when playback disc is emphasis off "H" is output when playback disc is emphasis on Not used
69	XTSL	I	Input terminal for the system clock frequency setting "L": 16.9344 MHz, "H": 33.8688MHz
70	DVSS2	—	Ground terminal (digital system)
71	XTAI	I	System clock input terminal (33.8688 MHz)
72	XTAO	O	System clock output terminal (33.8688 MHz) Not used
73	SOUT	O	Serial data output terminal Not used
74	SOCK	O	Serial data reading clock signal output terminal Not used
75	XOLT	O	Serial data latch pulse signal output terminal Not used
76	SQSO	O	Subcode Q data output to the mechanism controller
77	SQCK	I	Subcode Q data reading clock signal input from the mechanism controller
78	SCSY	I	Input terminal for resynchronism of guard subcode sync (S0+S1) Not used
79	SBSO	O	Subcode serial data output to the DVD decoder
80	EXCK	I	Subcode serial data reading clock signal input to the DVD decoder

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HCD-FR10W**DMB08 BOARD IC607 CXD9618BQ (AUDIO DIGITAL SIGNAL PROCESSOR)**

Pin No.	Pin Name	I/O	Description
1	VSS	—	Ground terminal
2	XRST	I	Reset signal input from the system controller “L”: reset
3	EXTIN	I	Master clock signal input terminal Not used
4	FS2	I	Sampling frequency selection signal input terminal Not used
5	VDDI	—	Power supply terminal (+2.6V)
6	FS1	I	Sampling frequency selection signal input terminal Not used
7	PLOCK	O	Internal PLL lock signal output terminal Not used
8	VSS	—	Ground terminal
9	MCLK1	I	System clock signal input terminal (13.5 MHz)
10	VDDI	—	Power supply terminal (+2.6V)
11	VSS	—	Ground terminal
12	MCLK2	O	System clock signal output terminal (13.5 MHz)
13	MS	I	Master/slave selection signal input terminal “L”: slave, “H”: master (fixed at “L” in this set)
14	SCKOUT	O	Internal system clock signal output to the D/A converter and stream processor
15	LRCKI1	I	L/R sampling clock signal (44.1 kHz) input from the digital audio processor
16	VDDE	—	Power supply terminal (+3.3V)
17	BCKI1	I	Bit clock signal (2.8224 MHz) input from the digital audio processor
18	SDI1	I	Front L-ch and R-ch audio serial data input from the digital audio processor
19	LRCKO	O	L/R sampling clock signal (44.1 kHz) output to the D/A converter and stream processor
20	BCKO	O	Bit clock signal (2.8224 MHz) output to the D/A converter and stream processor
21	VSS	—	Ground terminal
22	KFSIO	I	Audio clock signal (11.2896 MHz) input from the digital audio processor
23	SDO1	O	Front L-ch and R-ch audio serial data output to the stream processor
24	SDO2	O	Center and woofer audio serial data output to the stream processor
25	SDO3	O	Rear L-ch and R-ch audio serial data output to the stream processor
26	SDO4	O	Audio serial data output to the D/A converter
27	SPDIF	O	S/PDIF signal output terminal Not used
28	LRCKI2	I	L/R sampling clock signal (44.1 kHz) input from the A/D converter
29	BCKI2	I	Bit clock signal (2.8224 MHz) input from the A/D converter
30	SDI2	I	Center and woofer audio serial data input from the digital audio processor
31	VSS	—	Ground terminal
32	HACN	O	Acknowledge signal output to the system controller
33	HDIN	I	Write data input from the system controller
34	HCLK	I	Clock signal input from the system controller
35	HDOUT	O	Read data output to the system controller
36	HCS	I	Chip select signal input from the system controller
37	SDCLK	O	Clock signal output terminal Not used
38	CLKEN	O	Clock enable signal output terminal Not used
39	RAS	O	Row address strobe signal output terminal Not used
40	VDDI	—	Power supply terminal (+2.6V)
41	VSS	—	Ground terminal
42	CAS	O	Column address strobe signal output terminal Not used
43	DQM/OE0	O	Output terminal of data input/output mask Not used
44	CS0	O	Chip select signal output to the S-RAM
45	WE0	O	Write enable signal output to the S-RAM

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Pin No.	Pin Name	I/O	Description
46	VDDE	—	Power supply terminal (+3.3V)
47	WMD1	I	S-RAM wait mode setting terminal Fixed at “H” in this set
48	VSS	—	Ground terminal
49	WMD0	I	S-RAM wait mode setting terminal Fixed at “H” in this set
50	PAGE2	O	Page selection signal output terminal Not used
51	VSS	—	Ground terminal
52, 53	PAGE1, PAGE0	O	Page selection signal output terminal Not used
54	BOOT	I	Boot mode control signal input terminal Not used
55	BTACT	O	Boot mode state display signal output terminal Not used
56	BST	I	Boot strap signal input from the system controller
57	MOD1	I	PLL input frequency selection signal input terminal “L”: 384fs, “H”: 256fs (fixed at “H” in this set)
58	MOD0	I	Mode setting terminal “L”: single chip mode, “H”: use prohibition (fixed at “L” in this set)
59	EXLOCK	I	PLL lock error and data error flag input from the digital audio interface IC
60	VDDI	—	Power supply terminal (+2.6V)
61	VSS	—	Ground terminal
62, 63	A17, A16	O	Address signal output terminal Not used
64 to 66	A15 to A13	O	Address signal output to the S-RAM
67	GP10	O	L/R sampling clock signal (44.1 kHz) output to the D/A converter and stream processor
68	GP9	O	Decode signal output to the system controller
69	GP8	I	Bit 1 input terminal of channel status from the digital audio interface IC
70	VDDI	—	Power supply terminal (+2.6V)
71	VSS	—	Ground terminal
72 to 75	D15 to D12	I/O	Two-way data bus with the S-RAM
76	VDDE	—	Power supply terminal (+3.3V)
77 to 80	D11 to D8	I/O	Two-way data bus with the S-RAM
81	VSS	—	Ground terminal
82 to 85	A9, A12 to A10	O	Address signal output to the S-RAM
86	TDO	O	Simple emulation data output terminal Not used
87	TMS	I	Simple emulation data input start/end detection signal input terminal Not used
88	XTRST	I	Simple emulation asynchronous break input terminal Not used
89	TCK	I	Simple emulation clock signal input terminal Not used
90	TDI	I	Simple emulation data input terminal Not used
91	VSS	—	Ground terminal
92 to 97	A8 to A3	O	Address signal output to the S-RAM
98, 99	D7, D6	I/O	Two-way data bus with the S-RAM
100	VDDI	—	Power supply terminal (+2.6V)
101	VSS	—	Ground terminal
102 to 105	D5 to D2	I/O	Two-way data bus with the S-RAM
106	VDDE	—	Power supply terminal (+3.3V)
107, 108	D1, D0	I/O	Two-way data bus with the S-RAM
109, 110	A2, A1	O	Address signal output to the S-RAM
111	VSS	—	Ground terminal
112	A0	O	Address signal output to the S-RAM
113	PM	I	PLL reset signal input from the system controller “L”: reset

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Pin No.	Pin Name	I/O	Description
114	SDI3	I	Rear L-ch and R-ch audio serial data input from the digital audio processor
115	SDI4	I	Audio serial data input terminal Not used
116	SYNC	I	Synchronous/asynchronous selection signal input terminal “L”: Synchronous, “H”: asynchronous (fixed at “H” in this set)
117 to 119	VSS	—	Ground terminal
120	VDDI	—	Power supply terminal (+2.6V)

DMB08 BOARD IC701 TMC57929PGF-RDP (DVD DECODER)

Pin No.	Pin Name	I/O	Description
1, 2	D5, D6	I/O	Two-way data bus with the mechanism controller
3	VSS	—	Ground terminal (digital system)
4	D7	I/O	Two-way data bus with the mechanism controller
5	A0	I	Address signal input from the mechanism controller
6	VDD	—	Power supply terminal (+3.3V) (digital system)
7	A1	I	Address signal input from the mechanism controller
8	VDD5V	—	Power supply terminal (+5V)
9 to 14	A2 to A7	I	Address signal input from the mechanism controller
15	VSS	—	Ground terminal (digital system)
16	XWAIT	O	Wait signal output terminal Not used
17	XRD	I	Read strobe signal input from the mechanism controller
18	XWR	I	Write strobe signal input from the mechanism controller
19	XCS	I	Chip select signal input from the mechanism controller
20, 21	XINT0, XINT1	O	Interrupt signal output to the mechanism controller
22	VDD	—	Power supply terminal (+3.3V) (digital system)
23	XHRS	I	Not used
24	HDB7	O	Stream data signal output to the DSD decoder and DVD system processor
25	VSS	—	Ground terminal (digital system)
26	HDB8	O	Error flag signal output to the DSD decoder and DVD system processor
27	HDB6	O	Stream data signal output to the DSD decoder and DVD system processor
28	VDDS	—	Power supply terminal (+5V) (digital system)
29	HDB9	O	Not used
30	HDB5	O	Stream data signal output to the DSD decoder and DVD system processor
31	HDBA	O	Not used
32	HDB4	O	Stream data signal output to the DSD decoder and DVD system processor
33	VSS	—	Ground terminal (digital system)
34	HDBB	O	Not used
35	HDB3	O	Stream data signal output to the DSD decoder and DVD system processor
36	VDD	—	Power supply terminal (+3.3V) (digital system)
37	HDBC	O	Not used
38	VDDS	—	Power supply terminal (+5V) (digital system)
39	HDB2	O	Stream data signal output to the DSD decoder and DVD system processor
40	HDBD	O	Not used
41	HDB1	O	Stream data signal output to the DSD decoder and DVD system processor
42	VSS	—	Ground terminal (digital system)
43	HDBE	O	Not used
44	HDB0	O	Stream data signal output to the DSD decoder and DVD system processor
45	HDBF	O	Not used
46	XDRQ	O	Serial data effect flag signal output to the DSD decoder and DVD system processor
47	VDDS	—	Power supply terminal (+5V) (digital system)
48	XHWR	O	Serial data transfer clock signal output to the DSD decoder and DVD system processor
49	XHRD	O	Header flag signal output to the DSD decoder
50	VDD	—	Power supply terminal (+3.3V) (digital system)
51	REDY	O	Not used
52	VSS	—	Ground terminal (digital system)

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Pin No.	Pin Name	I/O	Description
53	XHAC	I	DVD mode: Serial data request signal input from the DVD system processor SACD mode: Serial data request signal input from the DSD decoder
54	HINT	O	Not used
55	XS16	O	Not used
56	HA1	I	Not used
57	XPDI	I/O	Not used
58	VDDS	—	Power supply terminal (+5V) (digital system)
59, 60	HA0, HA2	I	Not used
61	VSS	—	Ground terminal (digital system)
62, 63	HCS0, HCS1	I	Not used
64	VDD	—	Power supply terminal (+3.3V) (digital system)
65	DASP	I/O	Not used
66 to 69	MDB0 to MDB3	I/O	Two-way data bus with the D-RAM
70	VSS	—	Ground terminal (digital system)
71	MDB4	I/O	Two-way data bus with the D-RAM
72	VDD5V	—	Power supply terminal (+5V)
73 to 75	MDB5 to MDB7	I/O	Two-way data bus with the D-RAM
76	XMWR	O	Write enable signal output to the D-RAM
77	VDD	—	Power supply terminal (+3.3V) (digital system)
78	XRAS	O	Row address strobe signal output to the D-RAM
79, 80	MA0, MA1	O	Address signal output to the D-RAM
81	VSS	—	Ground terminal (digital system)
82 to 87	MA2 to MA7	O	Address signal output to the D-RAM
88	VDD	—	Power supply terminal (+3.3V) (digital system)
89	MA8	O	Address signal output to the D-RAM
90	VSS	—	Ground terminal (digital system)
91	MA9	O	Address signal output to the D-RAM
92	MNT1	O	EEPROM ready signal output to the mechanism controller
93	MNT2	O	Operation clock signal output for PSP physical disc mark detection to DSD decoder
94	XMOE	O	Output enable signal output to the D-RAM
95	XCAS	O	Column address strobe signal output to the D-RAM
96, 97	MDB8, MDB9	I/O	Two-way data bus with the D-RAM
98	VSS	—	Ground terminal (digital system)
99	MDBA	I/O	Two-way data bus with the D-RAM
100	VDD	—	Power supply terminal (+3.3V) (digital system)
101, 102	MDBB, MDBC	I/O	Two-way data bus with the D-RAM
103	VDD5V	—	Power supply terminal (+5V)
104 to 106	MDBD to MDBF	I/O	Two-way data bus with the D-RAM
107	GFS	O	Guard frame sync signal output to the mechanism controller
108	VSS	—	Ground terminal (digital system)
109	APEO	O	Absolute phase error signal output
110	VDD	—	Power supply terminal (+3.3V) (digital system)
111	DASYO	O	RF binary signal output
112	GND A5	—	Ground terminal (analog system)
113, 114	ASF1, AFS2	—	Filter connected terminal for selection the constant asymmetry compensation
115	DASYI	I	Analog signal input after integrated from the RF binary signal

Pin No.	Pin Name	I/O	Description
116	RFDCC	I	Input terminal for adjusting DC cut high-pass filter for RF signal Not used
117	RFIN	I	RF signal input from the DVD/CD RF amplifier
118, 119	VCCA5, VCCA4	—	Power supply terminal (+3.3V) (analog system)
120	VCOR1	—	VCO oscillating range setting resistor connected terminal
121	VCOIN	I	VCO input terminal
122, 123	GNDA4, GNDA3	—	Ground terminal (analog system)
124	LPF5	O	Signal output from the operation amplifier from PLL loop filter
125	VC1	I	Middle point voltage (+1.65V) input terminal
126, 127	LPF2, LPF1	I	Inverted signal input to the operation amplifier from PLL loop filter
128, 129	VCCA3, VCCA2	—	Power supply terminal (+3.3V) (analog system)
130	PDO	O	Signal output from the charge pump for phase comparator
131	PDHVCC	I	Middle point voltage input terminal for RF PLL
132	FDO	O	Signal output from the charge pump for frequency comparator
133, 134	GNDA2, GNDA1	—	Ground terminal (analog system)
135	SPO	O	Spindle motor control signal output
136	VC2	I	Middle point voltage (+1.65V) input terminal
137	MDIN2	I	Spindle motor servo drive signal input
138	MDIN1	I	MDP input terminal
139	VCCA1	—	Power supply terminal (+3.3V) (analog system)
140	CLVS	O	Control signal output for selection the spindle control filter constant at CLVS
141	VSS	—	Ground terminal (digital system)
142	MDSOUT	O	Frequency error output terminal of internal CLV circuit
143	VDD	—	Power supply terminal (+3.3V) (digital system)
144	MDPOUT	O	Phase error output terminal of internal CLV circuit
145	DFCT	I	Defect signal input terminal Not used
146	GSCOR	I	Guard subcode sync (S0+S1) detection signal input from the digital signal processor
147	EXCK	O	Subcode serial data reading clock signal output to the digital signal processor
148	SBIN	I	Subcode serial data input from the digital signal processor
149	VSS	—	Ground terminal (digital system)
150	SCOR	I	Sucode sync (S0+S1) detection signal input from the digital signal processor
151	WFCK	I	Write frame clock signal input from the digital signal processor
152	VDD5V	—	Power supply terminal (+5V)
153	XRCI	I	RAM overflow signal input terminal Not used
154	VDDS	—	Power supply terminal (+5V) (digital system)
155	C2PO	I	C2 pointer signal input from the digital signal processor
156	VDD	—	Power supply terminal (+3.3V) (digital system)
157	DBCK	O	Bit clock signal (2.8224 MHz) output terminal Not used
158	BCLK	I	Bit clock signal (2.8224 MHz) input from the digital signal processor
159	DDAT	O	PCM data output terminal Not used
160	MDAT	I	Serial data input from the digital signal processor
161	VSS	—	Ground terminal (digital system)
162	DLRC	O	L/R sampling clock signal (44.1 kHz) output terminal Not used
163	LRCK	I	L/R sampling clock signal (44.1 kHz) input from the digital signal processor
164	XRST	I	Reset signal input from the mechanism controller “L”: reset
165	IFS0	I	Interface selection signal input terminal Fixed at “L” in this set
166	IFS1	I	Interface selection signal input terminal Fixed at “H” in this set

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Pin No.	Pin Name	I/O	Description
167	XTAL	I	33.8688 MHz clock signal input terminal
168	VSS	—	Ground terminal (digital system)
169	XTL2	O	System clock output terminal (33.8688 MHz)
170	XTL1	I	System clock input terminal (33.8688 MHz)
171	VDD	—	Power supply terminal (+3.3V) (digital system)
172 to 176	D0 to D4	I/O	Two-way data bus with the mechanism controller

DMB08 BOARD IC801 CXD2753R (DSD DECODER)

Pin No.	Pin Name	I/O	Description
1	VSCA0	—	Ground terminal (for core)
2	XMSLAT	I	Serial data latch pulse signal input from the mechanism controller
3	MSCK	I	Serial data transfer clock signal input from the mechanism controller
4	MSDATI	I	Serial data input from the mechanism controller
5	VDCA0	—	Power supply terminal (+2.5V) (for core)
6	MSDATO	O	Serial data output to the mechanism controller
7	MSREADY	O	Ready signal output to the mechanism controller “L”: ready
8	XMSDOE	O	Serial data output enable signal output terminal Not used
9	XRST	I	Reset signal input from the mechanism controller “L”: reset
10	SMUTE	I	Soft muting on/off control signal input from the mechanism controller “H”: muting on
11	MCKI	I	Master clock signal (33.8688 MHz) input
12	VSIOA0	—	Ground terminal (for I/O)
13	EXCKO1	O	Master clock signal (33.8688 MHz) output to the digital audio processor
14	EXCKO2	O	External clock 2 signal output terminal Not used
15	LRCK	O	L/R sampling clock signal (44.1kHz) output terminal Not used
16	F75HZ	O	Not used
17	VDIOA0	—	Power supply terminal (+3.3V) (for I/O)
18 to 25	MNT0 to MNT7	O	Monitor signal output terminal Not used
26	TCK	I	Clock signal input from the DVD system processor
27	TDI	I	Serial data input from the DVD system processor
28	VSCA1	—	Ground terminal (for core)
29	TDO	O	Serial data output to the DVD system processor
30	TMS	I	TMS signal input from the DVD system processor
31	TRST	I	Reset signal input from the DVD system processor “L”: reset
32 to 34	TEST1 to TEST3	I	Input terminal for the test (normally: fixed at “L”)
35	VDCA1	—	Power supply terminal (+2.5V) (for core)
36	UBIT	O	Not used
37	XBIT	O	Not used
38 to 41	SUPDT0 to SUPDT3	O	Supplementary data output terminal Not used
42	VSIOA1	—	Ground terminal (for I/O)
43, 44	SUPDT4, SUPDT5	O	Supplementary data output terminal Not used
45	VDIOA1	—	Power supply terminal (+3.3V) (for I/O)
46, 47	SUPDT6, SUPDT7	O	Supplementary data output terminal Not used
48	SUPEN	O	Supplementary data enable signal output terminal Not used
49	VSCA2	—	Ground terminal (for core)
50	NC	O	Not used
51, 52	TEST4, TEST5	I	Input terminal for the test (normally: fixed at “L”s)
53	NC	O	Not used
54	VDCA2	—	Power supply terminal (+2.5V) (for core)
55, 56	NC	O	Not used
57	BCKASL	I	Input/output selection signal input terminal of bit clock signal (2.8224 MHz) for DSD data output “L”: input (slave), “H”: output (master) Fixed at “H” in this set
58	VSDSD0	—	Ground terminal (for DSD data output)
59	BCKAI	I	Bit clock signal (2.8224 MHz) input terminal for DSD data output Not used
60	BCKAO	O	Bit clock signal (2.8224 MHz) output terminal for DSD data output
61	PHREFI	I	Bit clock signal (2.8224 MHz) input terminal for DSD data output Not used

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Pin No.	Pin Name	I/O	Description
62	PHREFO	O	Bit clock signal (2.8224 MHz) output to the digital audio processor Not used
63	ZDFL	O	Front L-ch Zero data flag detection signal output terminal Not used
64	DSAL	O	Front L-ch DSD data output to the digital audio processor
65	ZDFR	O	Front R-ch Zero data flag detection signal output terminal Not used
66	DSAR	O	Front R-ch DSD data output to the digital audio processor
67	VDDSD0	—	Power supply terminal (+3.3V) (for DSD data output)
68	ZDFC	O	Center zero data flag detection signal output terminal Not used
69	DSAC	O	Center DSD data output to the digital audio processor
70	ZDFLFE	O	Woofer zero data flag detection signal output terminal Not used
71	DSALFE	O	Woofer DSD data output to the digital audio processor
72	VSDSD1	—	Ground terminal (for DSD data output)
73	ZDFLS	O	Rear L-ch zero data flag detection signal output terminal Not used
74	DSALS	O	Rear L-ch DSD data output to the digital audio processor
75	ZDFRS	O	Rear R-ch zero data flag detection signal output terminal Not used
76	DSARS	O	Rear R-ch DSD data output to the digital audio processor
77	VDDSD	—	Power supply terminal (+3.3V) (For DSD data output)
78, 79	IOUT0, IOUT1	O	Data output terminal for IEEE 1394 link chip interface Not used
80	VSCB0	—	Ground terminal (for core)
81, 82	IOUT2, IOUT3	O	Data output terminal for IEEE 1394 link chip interface Not used
83	VDCB0	—	Power supply terminal (+2.5V) (for core)
84, 85	IOUT4, IOUT5	O	Data output terminal for IEEE 1394 link chip interface Not used
86	VSI0B0	—	Ground terminal (for I/O)
87	IANCO	O	Transmission information data output terminal for IEEE 1394 link chip interface Not used
88	IFULL	I	Data transmission hold request signal input terminal for IEEE 1394 link chip interface Not used
89	IEMPTY	I	High speed transmission request signal input terminal for IEEE 1394 link chip interface Not used
90	VDIOB0	—	Power supply terminal (+3.3V) (for I/O)
91	IFRM	O	Frame reference signal output terminal for IEEE 1394 link chip interface Not used
92	IOUTE	O	Enable signal output terminal for IEEE 1394 link chip interface Not used
93	IBCK	O	Data transmission clock signal output terminal for IEEE 1394 link chip interface Not used
94	VSCB1	—	Ground terminal (for core)
95	IERR	I	Not used
96	IANCI	I	Not used
97	IPLAN	I	Not used
98	IHOLD	O	Not used
99	VDCB1	—	Power supply terminal (+2.5V) (for core)
100	IVLD	I	Not used
101 to 105	IDIN0 to IDIN4	I	Not used
106	VSI0B1	—	Ground terminal (for I/O)
107 to 109	IDIN5 to IDIN7	I	Not used
110	VDIOB1	—	Power supply terminal (+3.3V) (for I/O)
111 to 114	WAD0 to WAD3	I	External A/D data input terminal for PSP physical disc mark detection Not used
115	TESTI	I	Input terminal for the test (normally: fixed at "L")
116	VSCB2	—	Ground terminal (for core)

Pin No.	Pin Name	I/O	Description
117 to 120	WAD4 to WAD7	I	External A/D data input terminal for PSP physical disc mark detection Not used
121	VDCB2	—	Power supply terminal (+2.5V) (for core)
122	WRFD	I	Not used
123	WCK	I	Operation clock signal input for PSP physical disc mark detection from the DVD decoder
124, 125	WAVDD0, WAVDD1	—	A/D power supply terminal (+2.5V) (for PSP physical disc mark detection)
126	WARFI	I	Analog RF signal input for PSP physical disc mark detection from the DVD/CD RF amplifier
127	WAVRB	I	A/D bottom reference terminal for PSP physical disc mark detection
128, 129	WAVSS0, WAVSS1	—	A/D ground terminal (for PSP physical disc mark detection)
130	VSIO	—	Ground terminal (for I/O)
131 to 134	DQ7 to DQ4	I/O	Two-way data bus with the SD-RAM
135	VDIOA2	—	Power supply terminal (+3.3V) (for I/O)
136 to 139	DQ3 to DQ0	I/O	Two-way data bus with the SD-RAM
140	VSIOA3	—	Ground terminal (for I/O)
141	DCLK	O	Clock signal output to the SD-RAM
142	DCKE	O	Clock enable signal output to the SD-RAM
143	XWE	O	Write enable signal output to the SD-RAM
144	XCAS	O	Column address strobe signal output to the SD-RAM
145	XRAS	O	Row address strobe signal output to the SD-RAM
146	VDIOA3	—	Power supply terminal (+3.3V) (for I/O)
147	NC	O	Not used
148, 149	A11, A10	O	Address signal output to the SD-RAM
150	VSCA3	—	Ground terminal (for core)
151, 152	A9, A8	O	Address signal output to the SD-RAM
153	VDCA3	—	Power supply terminal (+2.5V) (for core)
154 to 157	A7 to A4	O	Address signal output to the SD-RAM
158	VSIOA4	—	Ground terminal (for I/O)
159 to 162	A3 to A0	O	Address signal output to the SD-RAM
163	VDIOA4	—	Power supply terminal (+3.3V) (for I/O)
164	XSRQ	O	Serial data request signal output to the DVD decoder
165	XSHD	I	Header flag signal input from the DVD decoder
166	SDCK	I	Serial data transfer clock signal input from the DVD decoder
167	XSAK	I	Serial data effect flag signal input from the DVD decoder
168	SDEF	I	Error flag signal input from the DVD decoder
169 to 176	SD0 to SD7	I	Stream data signal input from the DVD decoder

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DMB08 BOARD IC901 uPD703033BYGF-M59-3BA-A (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	DAMP-DATA	O	Serial data output to the stream processors
2	DAMP-CLK	O	Serial data transfer clock signal output to the stream processors
3	I2C-DATA	I/O	Communication data bus with the DVD system processor and mechanism controller
4	CQ-RST	O	Reset signal output to the DVD system processor "L": reset
5	I2C-CLK	I/O	Communication data reading clock signal input or transfer clock signal output with the DVD system processor and mechanism controller
6	DSP-DO	I	Write data input from the audio digital signal processor
7	DIG-DI	O	Read data output to the digital audio interface IC, audio digital signal processor and D/A converter
8	DIG-CLK	O	Clock signal output to the digital audio interface IC, audio digital signal processor and D/A converter
9	EVDD	—	Power supply terminal (+5V)
10	EVSS	—	Ground terminal
11	P-PWM	O	PWM voltage control signal output
12	DSP-RST	O	Reset signal output to the audio digital signal processor "L": reset
13	DSP-PM	O	PLL reset signal output to the audio digital signal processor "L": reset
14	DSP-CS	O	Chip select signal output to the audio digital signal processor
15	DSP-HACN	I	Acknowledge signal input from to the audio digital signal processor
16	DSP-BST	O	Boot strap signal output to the audio digital signal processor
17	DSP-GP9	I	Decode signal input from to the audio digital signal processor
18	DIR-ZERO	I	Audio serial data input from the digital audio interface IC
19	DIR-ERR	I	PLL lock error and data error flag input from the digital audio interface IC
20	DIR-CE	O	Chip enable signal output to the digital audio interface IC
21	VPP	—	Power supply terminal (for programming) Not used
22	DIR-XST	I	Source clock switching monitor input from the digital audio interface IC
23	DIR-AD	O	Muting signal output
24	DIR-XMODE	O	System reset signal output to the digital audio interface IC "L": reset
25	DIRDO	I	Write data input from the digital audio interface IC
26	DAMP-RST	O	Reset signal output to the stream processors "L": reset
27	GP12	—	Not used (fixed at "L")
28	DAMP-MUTEN	O	Muting on/off control signal output to the stream processors "H": muting on
29	CS1	O	Chip select signal output to the stream processor (for front L-ch and R-ch)
30	CS2	O	Chip select signal output to the stream processor (for center and woofer)
31	CS3	O	Chip select signal output to the stream processor (for rear L-ch and R-ch)
32	DAC-CS	O	Chip select signal output to the D/A converter
33	AD-RST	O	Reset signal output to the A/D converter and D/A converter "L": reset
34	RESET	I	System reset signal input "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
35	XT1	I	Sub system clock input terminal Not used (open)
36	XT2	O	Sub system clock output terminal Not used (open)
37	REGC	—	Capacitance connection terminal
38	X2	O	Main system clock output terminal (20 MHz)
39	X1	I	Main system clock input terminal (20 MHz)
40	VSS	—	Ground terminal
41	VDD	—	Power supply terminal (+5V)

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Pin No.	Pin Name	I/O	Description
42	CLKOUT	O	Clock signal output terminal Not used (open)
43	DIP-RST	O	Reset signal output to the power drivers "L": reset
44	DIP-OCF	I	Protect signal input from the over load detection circuit
45	ST-POWER	O	System power on/off control signal output "H": power on
46	HP-MUTE	O	Headphone muting on/off control signal output "L": muting on
47	AU-MUTE	O	Audio line muting on/off control signal output "L": muting on
48	VIDEO-MUTE	O	Video muting signal output
49	PROG SW	I	SCAN SELECT switch input terminal "L": SELECTABLE, "H": INTERLACE
50	FM750	O	Power supply for tuner pack on/off control signal output
51	TUNED	I	Tuning detection signal input from the tuner unit "L": tuned
52	TUN-DI	I	Serial data input from the tuner unit
53	TUN-CE	O	Chip enable signal output to the tuner unit
54	TUN-DO	O	Serial data output to the tuner unit
55	TUN-CLK	O	Serial data transfer clock signal output to the tuner unit
56	FL-MUTE	O	Reset signal output to the fluorescent indicator tube driver "L": reset
57	FL-CLK	O	Serial data transfer clock signal output to the fluorescent indicator tube driver
58	BVDD	—	Power supply terminal (+5V) (for bus interface)
59	BVSS	—	Ground terminal (for bus interface)
60	FL-DATA	O	Serial data output to the fluorescent indicator tube driver
61	FL-CS	O	Chip select signal output to the fluorescent indicator tube driver "L" active
62	LED-CS	—	Not used
63	LED-CLR	—	Not used
64	HPSW	I	Connection detection signal input of the headphone jack "L": no connection, "H": headphone connected
65	DF-RST	O	Reset signal output to the digital audio processor "L": reset
66	PCON3	O	Standby LED control signal output
67	SW2	I	Chucking detection switch signal input
68	F-IN	O	Motor drive signal output
69	R-IN	O	Motor drive signal output
70	DVD_SEL	O	DVD select signal output
71, 72	NC	—	Not used
73	RGB_SEL	O	RGB select signal output
74	AVDD	—	Power supply terminal (+5V) (analog system)
75	AVSS	—	Ground terminal (analog system)
76	AVREF	—	Reference voltage (+5V) input terminal (analog system)
77	NC	—	Not used (fixed at "L")
78	SW1	I	Loading out detection switch signal input
79	SW3	I	Trigger detection switch signal input
80	AREA1	I	Destination setting terminal
81	SEN2	I	Disc loading detection signal input
82 to 84	KEY0 to KEY2	I	Key input terminal (A/D input)
85, 86	NC	—	Not used (fixed at "L")
87	MODEL	I	Model setting terminal
88	RDS-DATA	I	RDS serial data input from the RDS decoder
89	DVD-POWER	O	DVD power on/off control signal output "H": power on
90	STOP	I	System power stop signal input
91	POWER-SW	I	AC power detection signal input

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Pin No.	Pin Name	I/O	Description
92	SIRCS	I	Remote control signal input
93	WAKE	I	System wake up signal input by pressing a key on the front panel or remote commander or disc insert detect switch
94	RDS-CLK	I	RDS serial data transfer clock signal input from the RDS decoder
95	AV-SEL0	O	Audio/video selection signal output
96	AV-SEL1	O	Audio/video selection signal output
97	DF-SW	O	selection signal output to the digital audio processor
98	DF-SYNC	O	Sync signal output to the digital audio processor
99, 100	NC	—	Not used (fixed at "L")

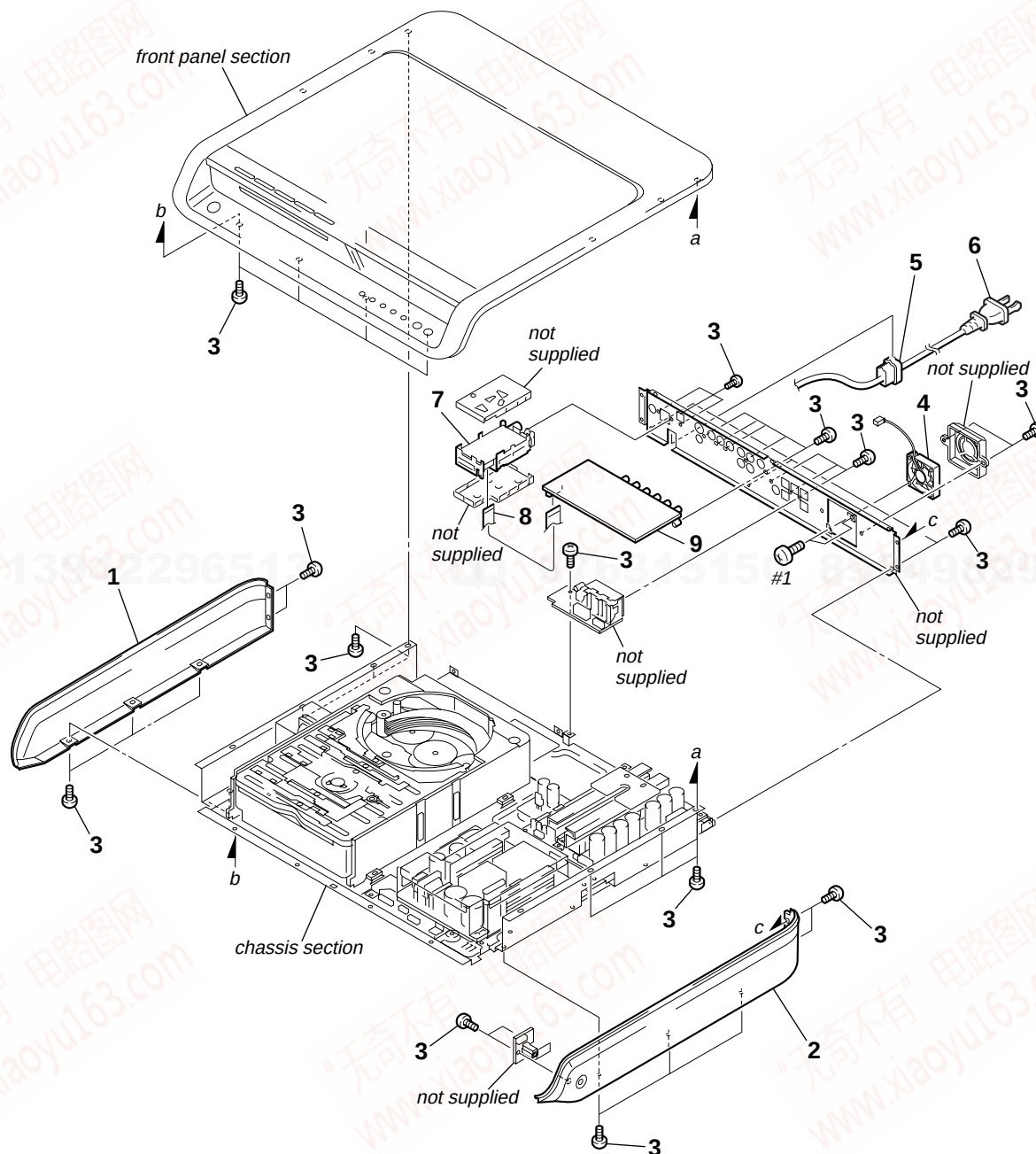
SECTION 8 EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.

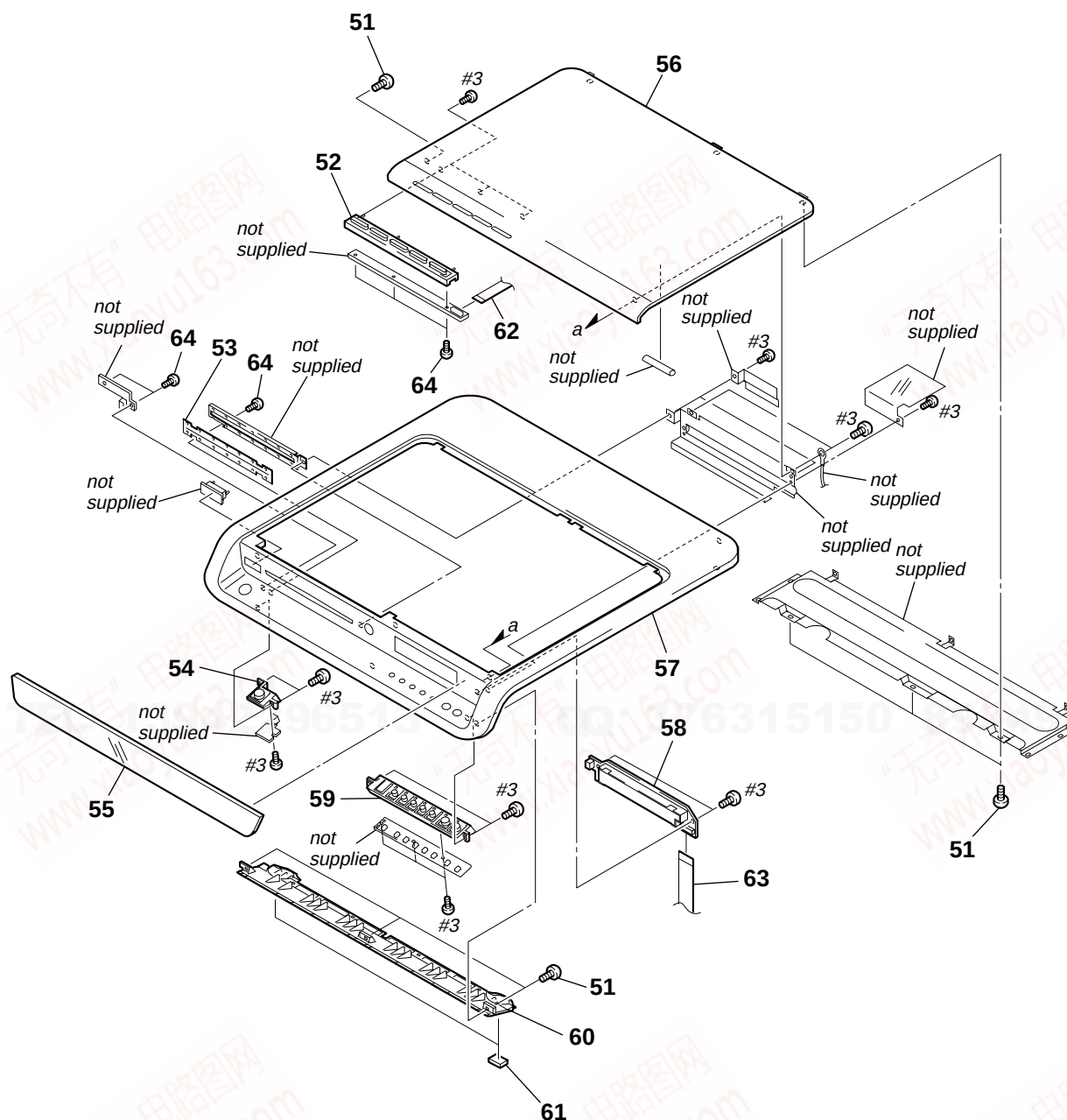
Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

8-1. CASE SECTION


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-253-911-01	PANEL (L), SIDE		$\triangle$ 6	1-783-531-72	CORD, POWER	
2	4-253-912-01	PANEL (R), SIDE		7	A-4750-572-A	TUNER UNIT	
3	3-077-331-01	+BV3 (3-CR)		8	1-828-962-11	WIRE (FLAT TYPE) (11 CORE)	
4	1-763-861-12	FAN, DC		9	A-1066-582-A	IO BOARD, COMPLETE	
5	4-217-350-11	STOPPER, CORD		#1	7-685-881-09	SCREW +BVTT 4X8 (S)	

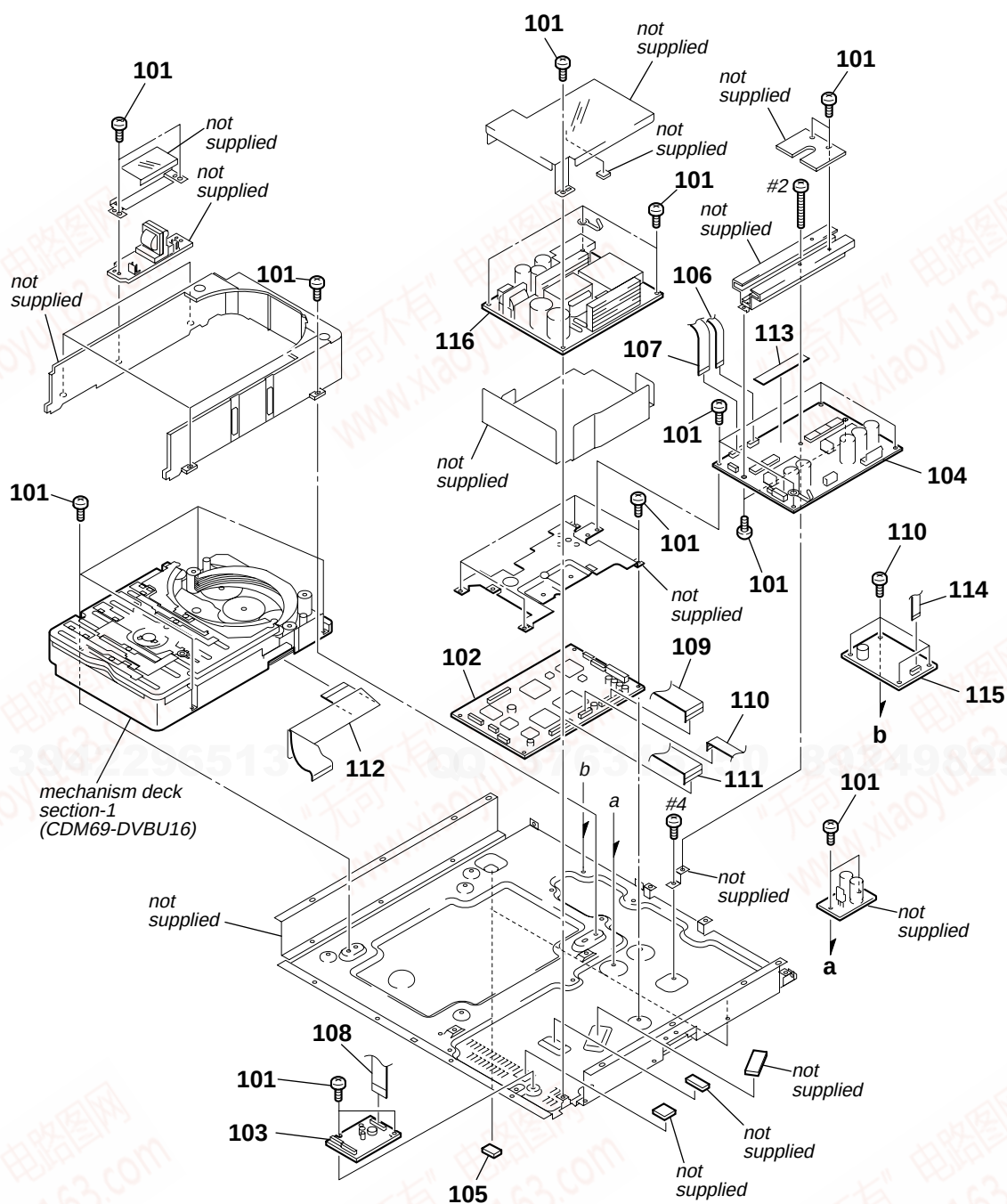
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8-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	3-077-331-21	+BV3 (3-CR)		59	X-4956-315-1	BUTTON SUB ASSY, PLAY	
52	X-4956-316-1	BUTTON SUB ASSY, DISC		60	4-253-909-01	PANEL, BOTTOM	
53	4-253-902-01	CUSHION, SLOT		61	4-232-478-31	FOOT	
54	X-4956-308-1	BUTTON (POWER) SUB ASSY		62	1-829-320-11	FLEXIBLE FLAT CABLE (13 CORE)	
55	X-4956-319-1	WINDOW SUB ASSY		63	1-829-321-11	FLEXIBLE FLAT CABLE (17 CORE)	
56	4-253-918-02	PANEL (AL), FRONT		64	4-931-757-31	SCREW (DIA.2.6X8) (IT3B), TAPPING	
57	4-253-910-31	PANEL (ML), FRONT		#3	7-685-133-19	SCREW +P 2.6X6 TYPE2	
58	A-4751-757-A	FL BOARD, COMPLETE					

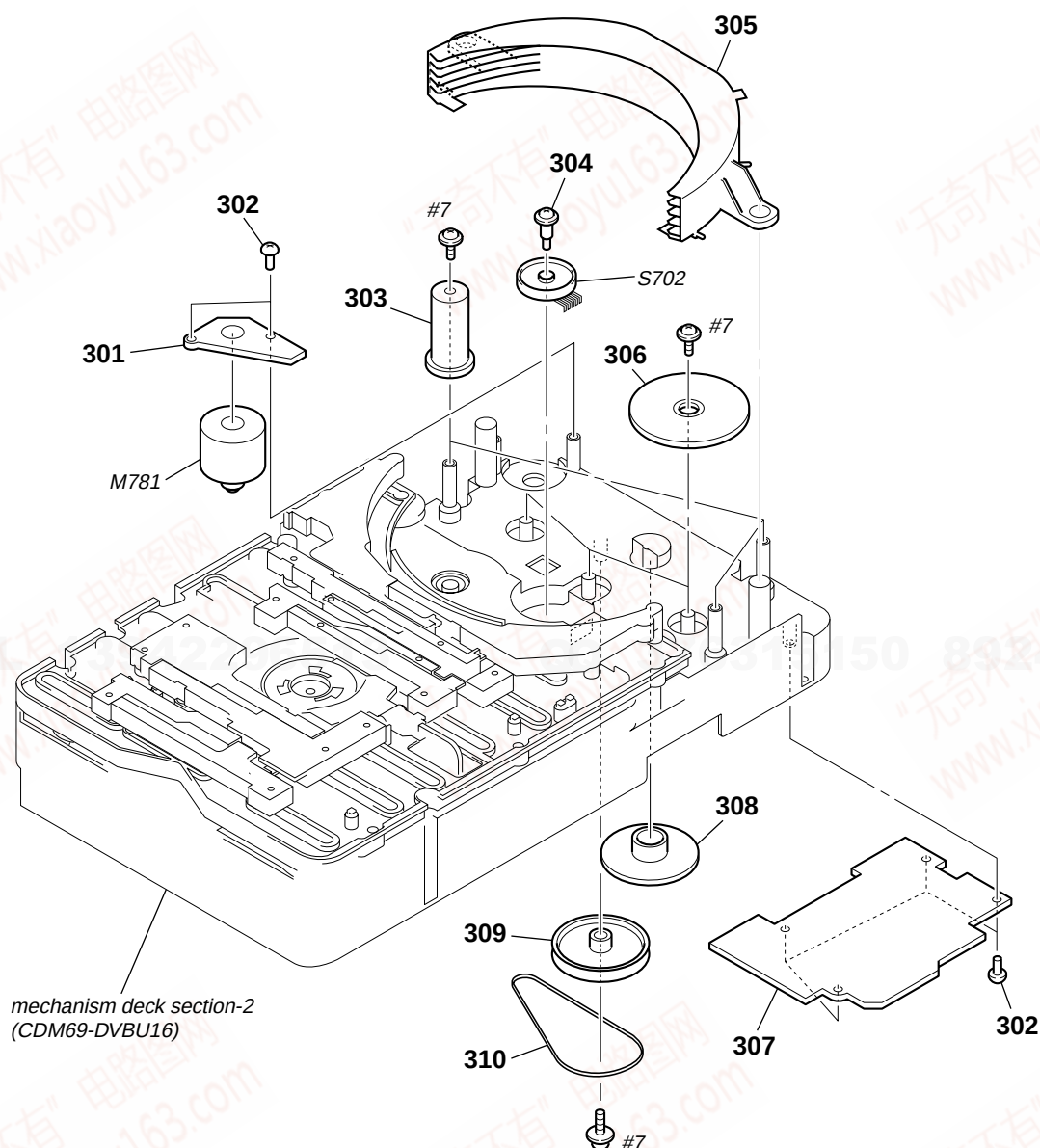
8-3. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	3-077-331-01	+BV3 (3-CR)		112	1-829-324-11	FLEXIBLE FLAT CABLE (28 CORE)	
102	A-1066-572-A	DMB08 BOARD, COMPLETE		113	4-254-954-01	SHEET (DMB), RADIATION	
103	A-4751-769-A	DDCON BOARD, COMPLETE		114	1-829-742-11	CABLE, FLEXIBLE FLAT (11 CORE)	
104	A-1066-578-A	AMP BOARD, COMPLETE		115	A-1079-939-A	DIAT TRANSMIT BOARD, COMPLETE	
105	4-232-478-31	FOOT		△ 116	1-468-838-11	REGULATOR, SWITCHING	
106	1-829-322-11	FLEXIBLE FLAT CABLE (9 CORE)		#2	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
107	1-829-319-11	FLEXIBLE FLAT CABLE (17 CORE)		#4	7-621-775-10	SCREW +B 2.6X4	
108	1-828-349-11	WIRE (FLAT TYPE) (17 CORE)		The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified. Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.			
109	1-829-323-11	FLEXIBLE FLAT CABLE (29 CORE)					
110	1-829-326-11	FLEXIBLE FLAT CABLE (15 CORE)					
111	1-829-325-11	FLEXIBLE FLAT CABLE (29 CORE)					

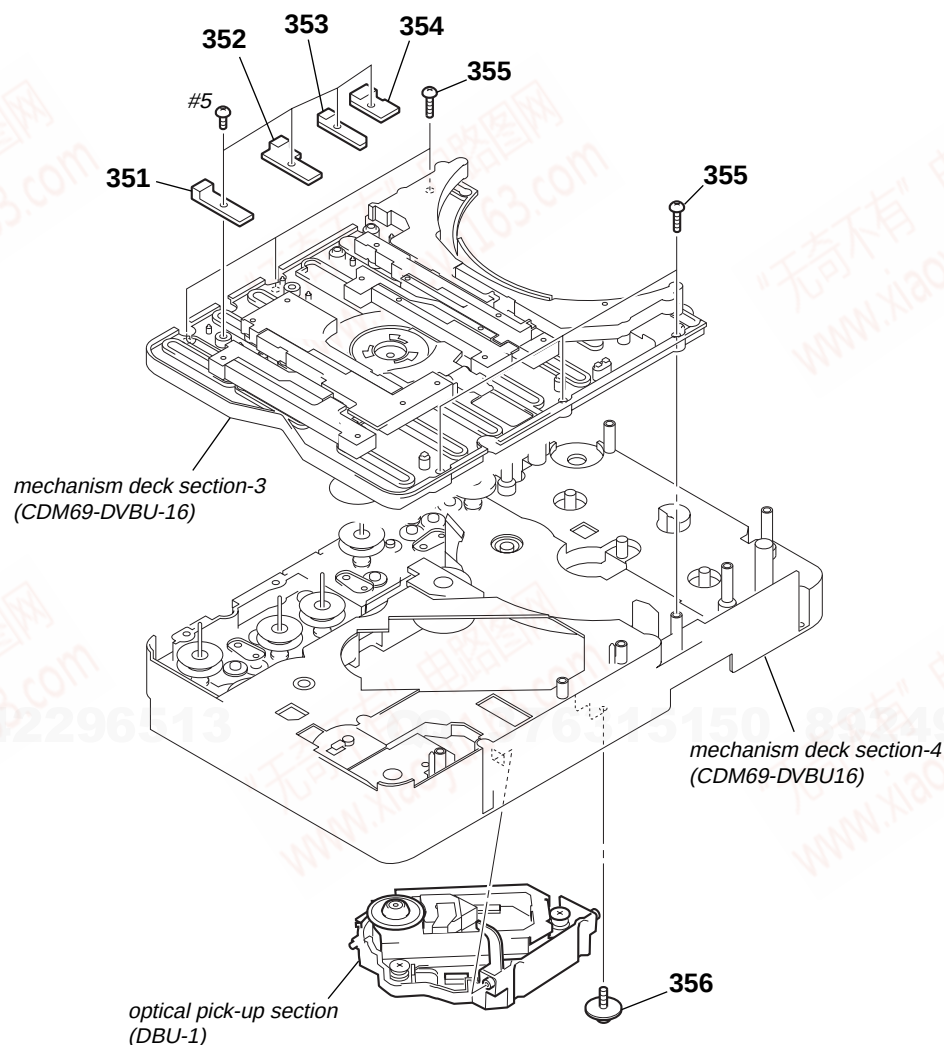
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8-4. MECHANISM DECK SECTION-1 (CDM69-DVBU16)



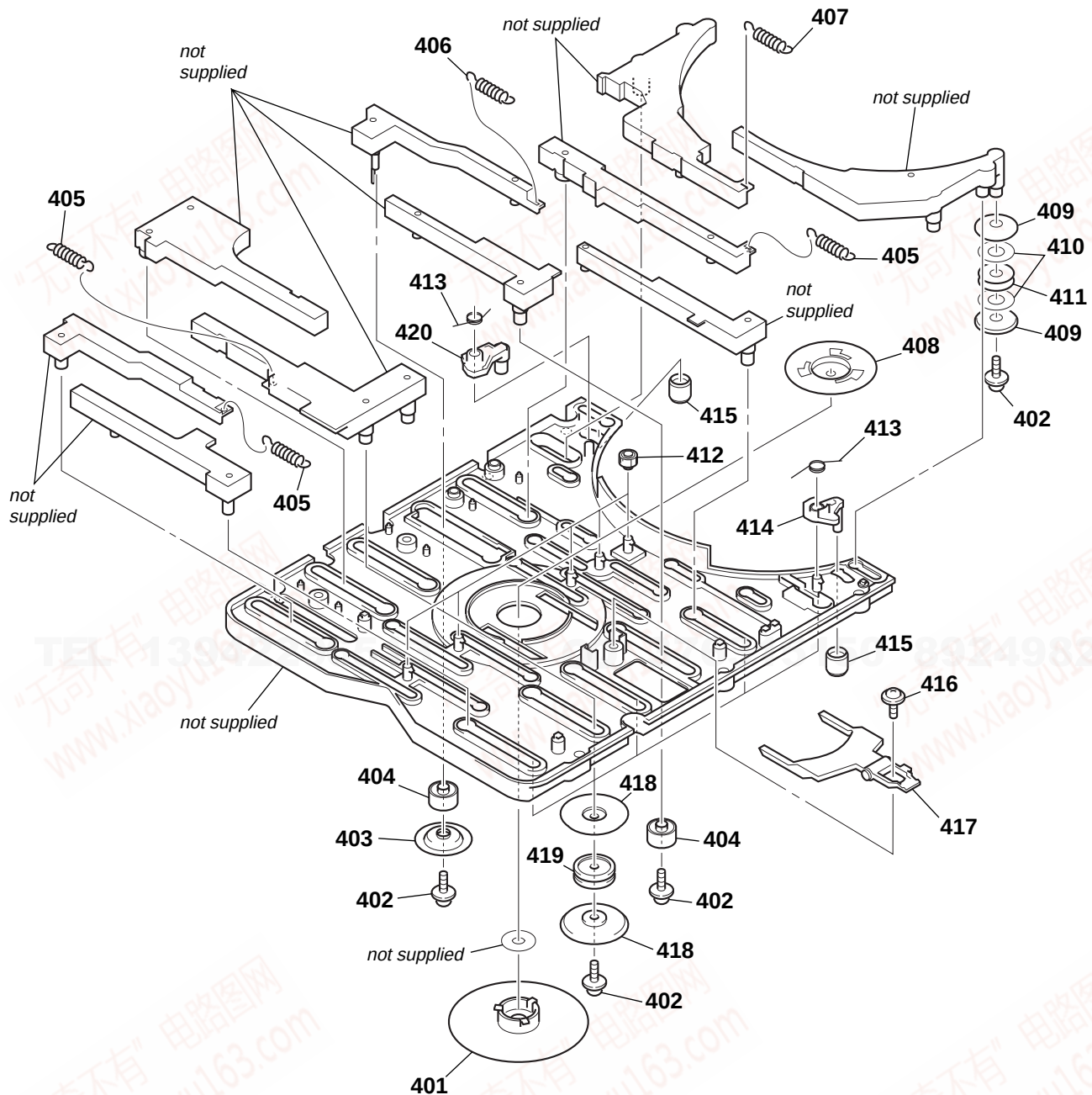
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
301	1-685-006-11	STOCKER MOTOR BOARD		308	4-239-689-01	GEAR (STOCKER DECELERATION)	
302	4-951-620-01	SCREW (2.6X8), +BVTP		309	4-239-698-01	PULLEY (STOCKER)	
303	4-239-690-01	CAM (STOCKER U/D)		310	4-240-035-01	BELT (STOCKER)	
304	4-239-618-02	SCREW (+PWH, 2X6), STEP TAPPING		M781	A-4735-953-A	MOTOR (STOCKER) ASSY (STOCKER)	
305	X-4954-628-1	STOCKER ASSY		S702	1-477-299-11	ENCODER, ROTARY (STOCKER POSITION)	
306	4-239-687-01	GEAR (STOCKER COMMUNICATION)		7	7-685-902-21	SCREW +PTPWH 2.6X8 (TYPE2)	
307	A-4728-700-A	RELAY BOARD, COMPLETE					

8-5. MECHANISM DECK SECTION-2
(CDM69-DVBU16)



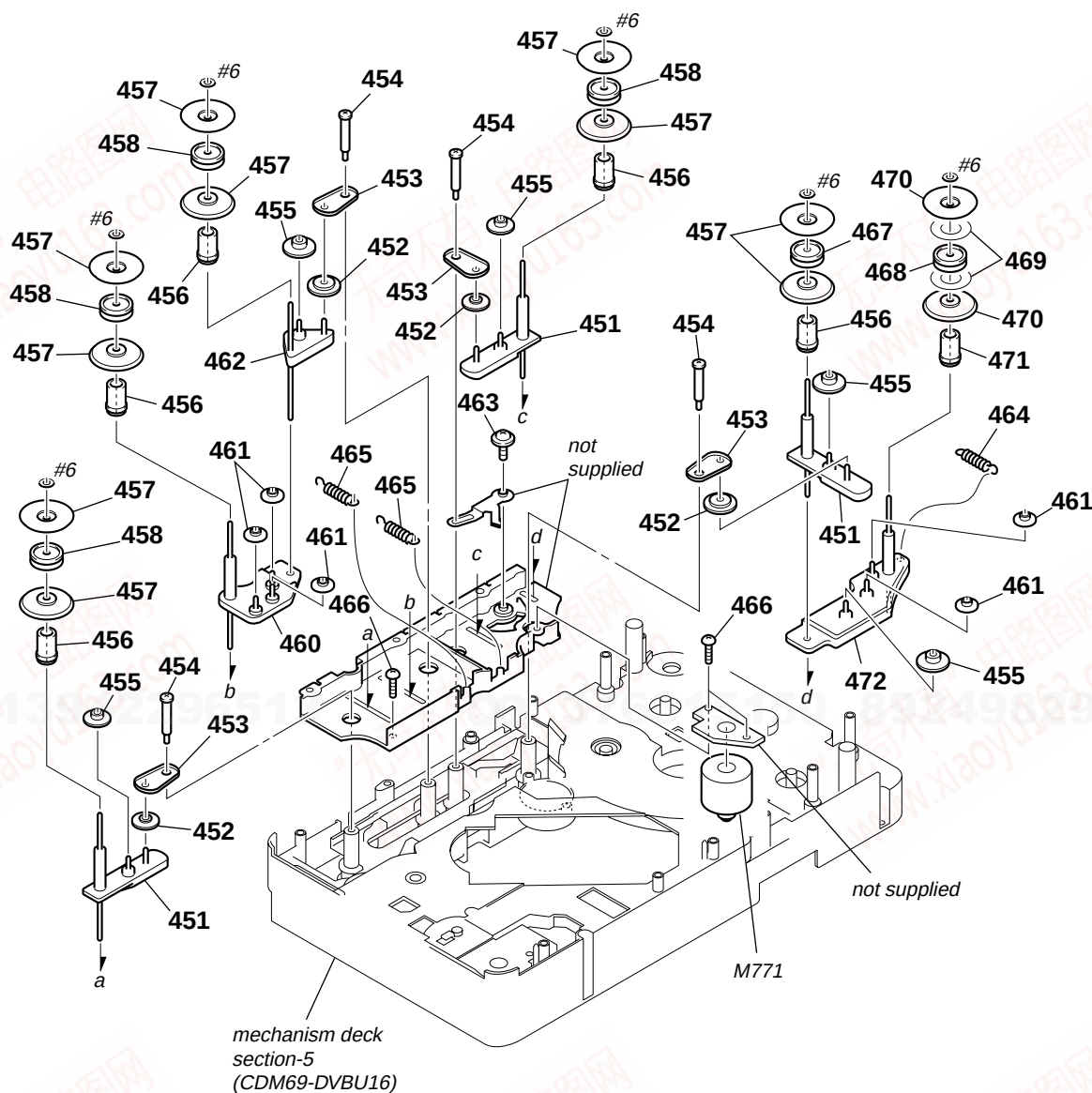
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
351	1-685-008-11	SW (1) BOARD		355	4-951-620-01	SCREW (2.6X8), +BVTP	
352	1-685-009-11	SW (2) BOARD		356	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
353	1-685-010-11	SW (3) BOARD		#5	7-685-533-14	SCREW +BTP 2.6X6 TYPE2 N-S	
354	1-685-011-11	SW (4) BOARD					

8-6. MECHANISM DECK SECTION-3 (CDM69-DVBU16)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
401	4-240-038-03	PULLEY (A), CHUCKING		411	4-244-035-01	ROLLER (STOCKER), RUBBER	
402	4-992-069-01	SCREW (+PTPWH) (M2) (DIA. 7)		412	4-239-640-02	PINION (SLIDER)	
403	4-239-648-01	PARASOL (ROLLER)		413	4-240-040-01	SPRING (DISC STOPPER), TORSION	
404	4-239-646-01	ROLLER (ROLLER)		414	4-240-039-01	LEVER (DISC STOPPER)	
405	4-239-641-01	SPRING (1.2), TENSION		415	4-239-702-01	ROLLER (DISC STOPPER)	
406	4-239-642-01	SPRING (3), TENSION COIL		416	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
407	4-239-679-01	SPRING (5), TENSION COIL		417	4-239-650-01	LEVER (LIFTER)	
408	4-240-037-02	PULLEY (B), CHUCKING		418	4-239-647-01	PARASOL (MAIN)	
409	4-239-649-01	PARASOL (STOCKER)		419	4-244-032-01	ROLLER, RUBBER	
410	4-241-209-01	SHEET, ADHESIVE		420	4-241-599-01	LEVER (SUPPORT)	

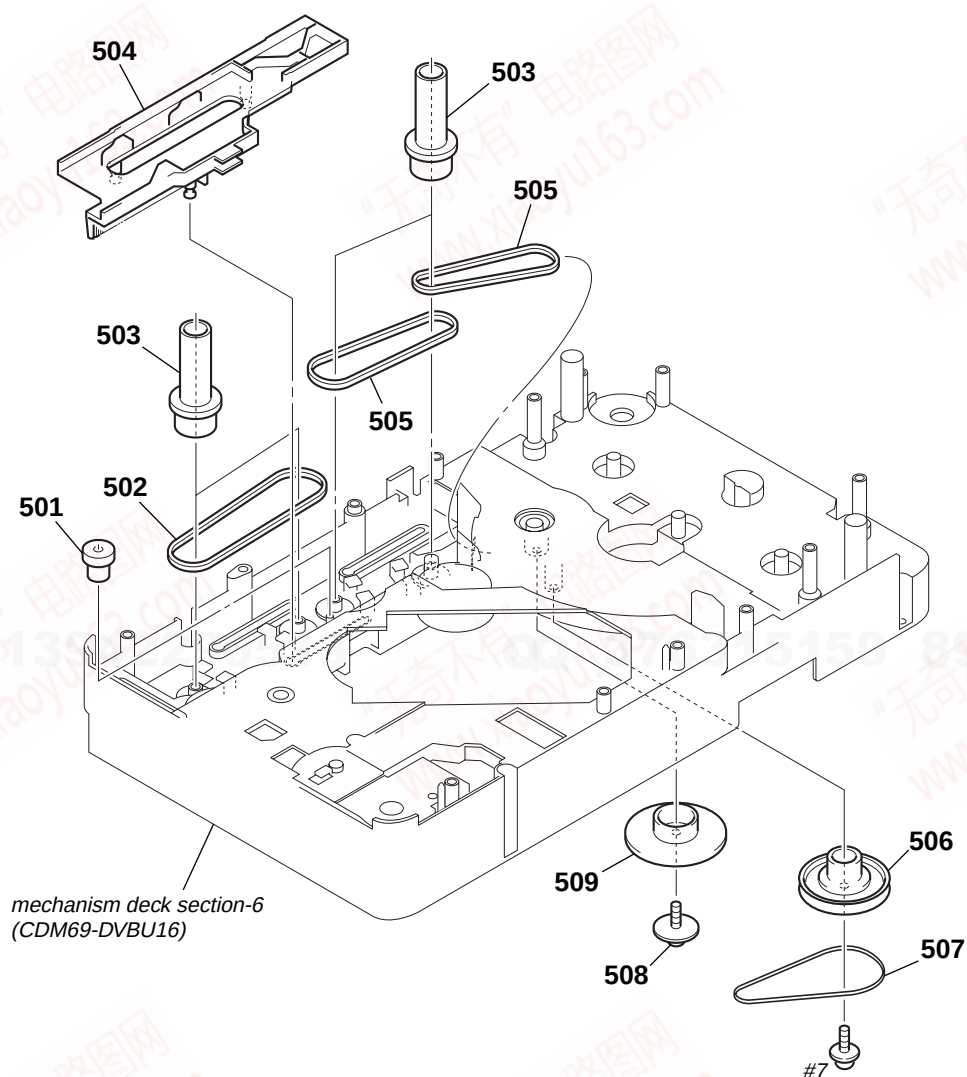
8-7. MECHANISM DECK SECTION-4 (CDM69-DVBU16)



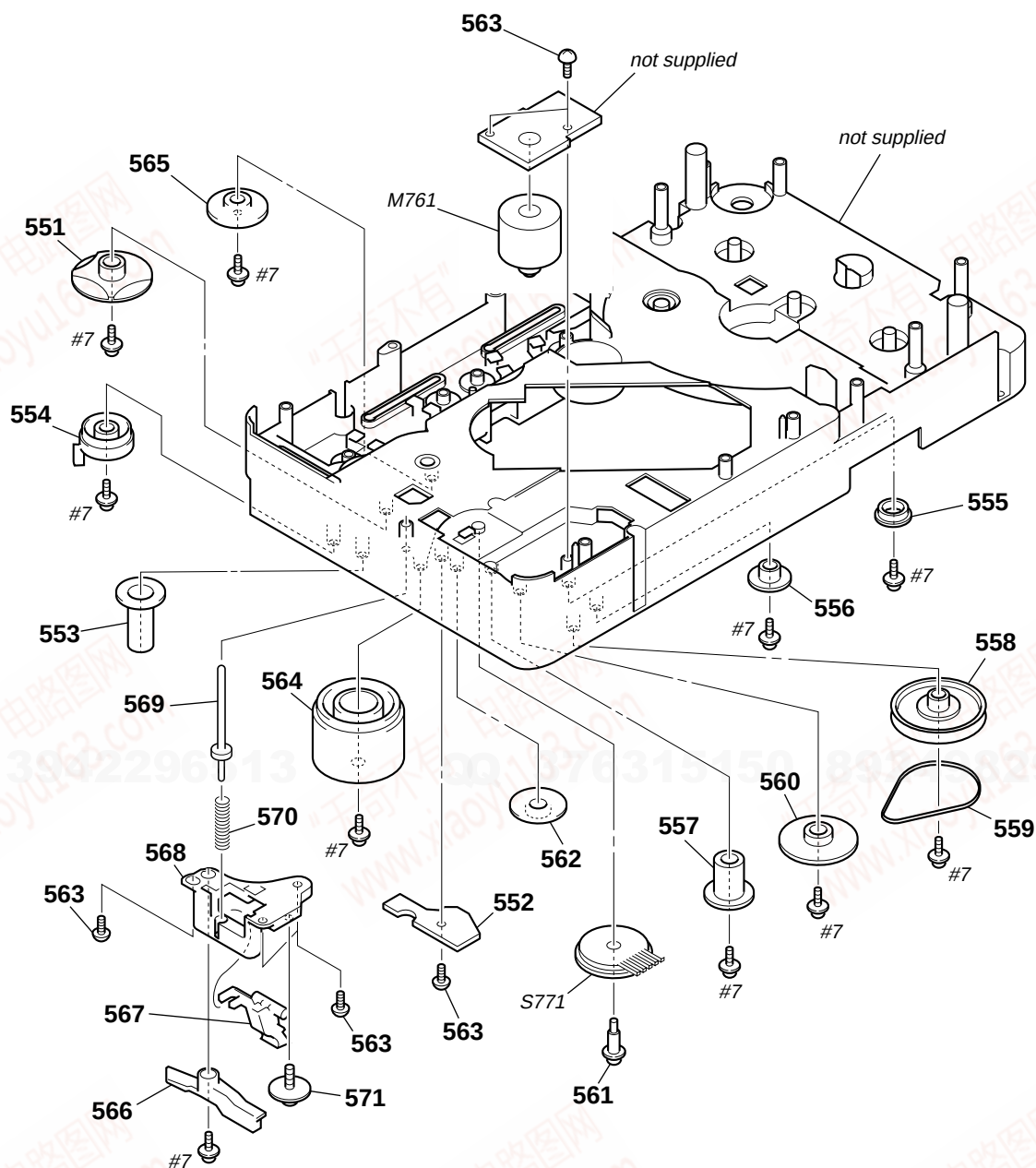
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
451	X-4954-626-1	LEVER (ROLLER) ASSY		464	4-240-981-01	SPRING (BASE SLIDER 5), TENSION	
452	4-239-666-01	GEAR		465	4-240-041-01	SPRING (SLIDER 2), TENSION	
453	4-239-668-01	LEVER (CENTER)		466	4-951-620-01	SCREW (2.6X8), +BVTP	
454	4-239-652-02	SCREW (ROLLER), STEP		467	4-243-916-01	ROLLER (S), RUBBER	
455	4-239-669-01	GEAR (ROLLER COMMUNICATION)		468	4-244-035-01	ROLLER (STOCKER), RUBBER	
456	4-239-667-01	GEAR (ROLLER CENTER)		469	4-241-209-01	SHEET, ADHESIVE	
457	4-239-647-01	PARASOL (MAIN)		470	4-239-649-01	PARASOL (STOCKER)	
458	4-244-032-01	ROLLER, RUBBER		471	4-239-671-01	GEAR (ROLLER 5 CENTER)	
460	X-4954-622-1	BASE (SLIDER 2) ASSY		472	X-4954-627-1	BASE (SLIDER 5) ASSY	
461	4-239-670-01	GEAR (ROLLER 5 COMMUNICATION)		M771	A-4735-953-A	MOTOR (STOCKER) ASSY (ROLLER)	
462	X-4954-624-1	LEVER (SLIDER 4) ASSY		#6	7-623-921-01	RING, RETAINING, CAPSTAN	
463	4-992-069-01	SCREW (+PTPWH) (M2) (DIA. 7)					

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8-8. MECHANISM DECK SECTION-5 (CDM69-DVBU16)

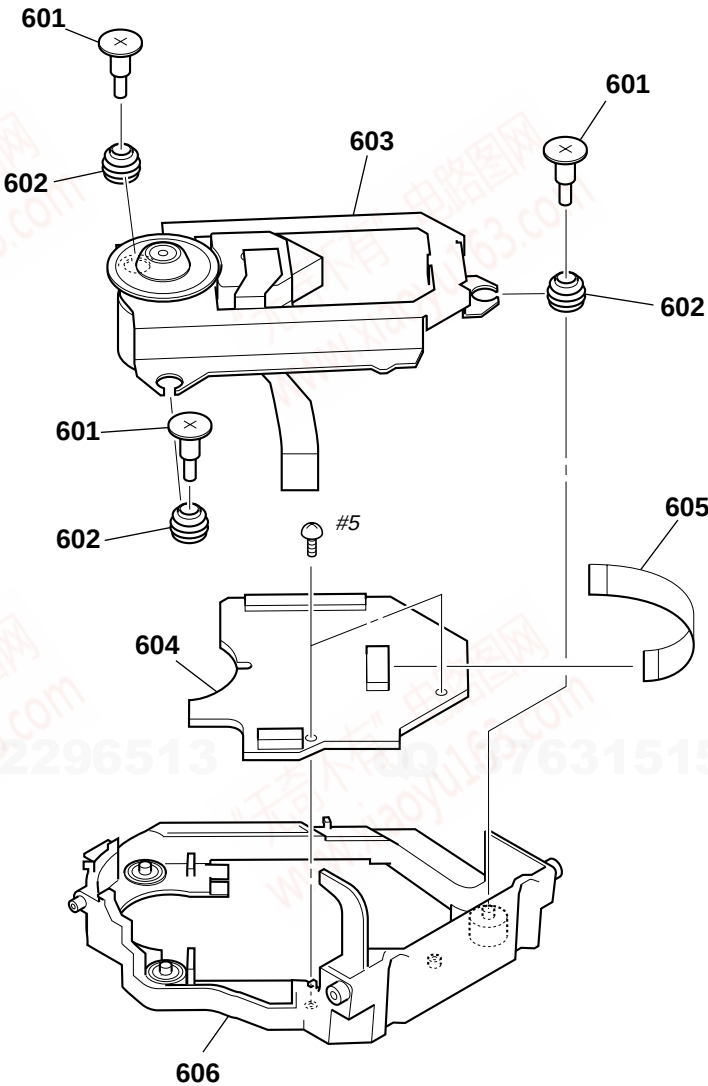


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
501	4-240-020-01	GEAR (TIMING)		506	4-239-699-01	PULLEY	
502	4-239-708-02	BELT (FRONT), TIMING		507	4-247-349-02	BELT (ROLLER V)	
503	4-239-697-01	GEAR (CENTER)		508	4-227-899-01	SCREW (DIA. 12), FLOATING	
504	X-4954-629-2	SLIDER (MODE CAM) ASSY		509	4-239-686-01	GEAR (ROLLER DECELERATION)	
505	4-239-706-02	BELT (REAR), TIMING		#7	7-685-902-21	SCREW +PTPWH 2.6X8 (TYPE2)	

8-9. MECHANISM DECK SECTION-6
(CDM69-DVBU16)


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
551	4-239-693-02	CAM (GEAR)		563	4-951-620-01	SCREW (2.6X8), +BVTP	
552	1-685-004-11	SENSOR BOARD		564	4-239-692-02	CAM (BU U/D)	
553	4-239-696-01	GEAR (EJECT LOCK)		565	4-239-694-01	GEAR (MODE CAM)	
554	4-239-695-02	CAM (EJECT LOCK)		566	4-241-731-01	SHUTTER (A), LEVER	
555	4-240-018-01	GEAR (MODE 4)		567	4-241-732-01	SHUTTER (B), LEVER	
556	4-240-019-01	GEAR (MODE 5)		568	4-241-733-01	BASE (SHUTTER)	
557	4-239-700-01	GEAR (MODE 2)		569	4-241-734-01	SHAFT (SHUTTER)	
558	4-239-683-01	PULLEY (MODE DECELERATION)		570	4-241-735-01	SPRING (SHUTTER), COMPRESSION	
559	4-239-682-01	BELT (MODE)		571	4-227-899-01	SCREW (DIA. 12), FLOATING	
560	4-239-688-01	GEAR (MODE 3)		M761	A-4735-953-A	MOTOR (STOCKER) ASSY (MODE)	
561	4-239-618-02	SCREW (+PWH, 2X6), STEP TAPPING		S771	1-477-300-11	ENCODER, ROTARY (MODE)	
562	4-239-684-01	GEAR (MODE 1)		#7	7-685-902-21	SCREW +PTPWH 2.6X8 (TYPE2)	

8-10. OPTICAL PICK-UP SECTION (DBU-1)



Ref. No.	Part No.	Description	Remark
601	4-981-923-01	SCREW (M), STEP	
602	3-057-023-21	INSULATOR (RB)	
△ 603	A-4713-410-A	OPTICAL PICK-UP (DBU-1 ASSY) (SERVICE)	
604	A-4728-690-A	RF BOARD, COMPLETE	

Ref. No.	Part No.	Description	Remark
605	1-685-250-11	FLEXIBLE BOARD	
606	4-239-703-01	HOLDER (DBU1)	
#5	7-685-533-14	SCREW +BTP 2.6X6 TYPE2 N-S	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
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SECTION 9 ELECTRICAL PARTS LIST

AMP

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

- CAPACITORS
uF: μ F
- COILS
uH: μ H
- SEMICONDUCTORS
In each case, u: μ , for example:
uA. . : μ A. . uPA. . : μ PA. .
uPB. . : μ PB. . uPC. . : μ PC. .
uPD. . : μ PD. .

When indicating parts by reference number, please include the board name.

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	A-1066-578-A	AMP BOARD, COMPLETE *****		C168	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
	3-077-331-21	+BV3 (3-CR)		C171	1-125-898-91	CERAMIC CHIP 0.22uF 10%	50V
	4-254-947-01	SHEET (AMP), RADIATION		C172	1-125-898-91	CERAMIC CHIP 0.22uF 10%	50V
		< CAPACITOR >		C175	1-125-898-91	CERAMIC CHIP 0.22uF 10%	50V
C101	1-164-346-11	CERAMIC CHIP 1uF	16V	C176	1-125-898-91	CERAMIC CHIP 0.22uF 10%	50V
C102	1-164-346-11	CERAMIC CHIP 1uF	16V	C177	1-125-898-91	CERAMIC CHIP 0.22uF 10%	50V
C103	1-164-346-11	CERAMIC CHIP 1uF	16V	C178	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
C104	1-164-346-11	CERAMIC CHIP 1uF	16V	C180	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
C105	1-164-346-11	CERAMIC CHIP 1uF	16V				
C106	1-164-346-11	CERAMIC CHIP 1uF	16V	C181	1-115-185-11	CERAMIC CHIP 0.033uF 10%	50V
C107	1-164-346-11	CERAMIC CHIP 1uF	16V	C182	1-115-185-11	CERAMIC CHIP 0.033uF 10%	50V
C111	1-164-346-11	CERAMIC CHIP 1uF	16V	C185	1-115-185-11	CERAMIC CHIP 0.033uF 10%	50V
C112	1-164-346-11	CERAMIC CHIP 1uF	16V	C186	1-115-185-11	CERAMIC CHIP 0.033uF 10%	50V
C113	1-164-346-11	CERAMIC CHIP 1uF	16V	C187	1-115-185-11	CERAMIC CHIP 0.033uF 10%	50V
C114	1-164-346-11	CERAMIC CHIP 1uF	16V				
C115	1-164-346-11	CERAMIC CHIP 1uF	16V	C188	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C116	1-164-346-11	CERAMIC CHIP 1uF	16V	C189	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C117	1-164-346-11	CERAMIC CHIP 1uF	16V	C191	1-107-898-11	ELECT 2200uF 20%	35V
C131	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C192	1-107-898-11	ELECT 2200uF 20%	35V
				C195	1-107-898-11	ELECT 2200uF 20%	35V
C132	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V				
C135	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C196	1-107-898-11	ELECT 2200uF 20%	35V
C136	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C197	1-107-898-11	ELECT 2200uF 20%	35V
C137	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C199	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C138	1-162-923-11	CERAMIC CHIP 47PF 5%	50V	C200	1-164-156-11	CERAMIC CHIP 0.1uF	25V
				C201	1-125-898-91	CERAMIC CHIP 0.22uF 10%	50V
C141	1-164-156-11	CERAMIC CHIP 0.1uF	25V				
C142	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C202	1-125-898-91	CERAMIC CHIP 0.22uF 10%	50V
C145	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C203	1-125-898-91	CERAMIC CHIP 0.22uF 10%	50V
C146	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C204	1-125-898-91	CERAMIC CHIP 0.22uF 10%	50V
C147	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C209	1-125-898-91	CERAMIC CHIP 0.22uF 10%	50V
				C210	1-125-898-91	CERAMIC CHIP 0.22uF 10%	50V
C148	1-162-923-11	CERAMIC CHIP 47PF 5%	50V				
C151	1-115-185-11	CERAMIC CHIP 0.033uF 10%	50V	C211	1-136-177-00	FILM 1uF 5%	50V
C152	1-115-185-11	CERAMIC CHIP 0.033uF 10%	50V	C212	1-136-177-00	FILM 1uF 5%	50V
C155	1-115-185-11	CERAMIC CHIP 0.033uF 10%	50V	C215	1-136-177-00	FILM 1uF 5%	50V
C156	1-115-185-11	CERAMIC CHIP 0.033uF 10%	50V	C216	1-136-177-00	FILM 1uF 5%	50V
				C217	1-136-177-00	FILM 1uF 5%	50V
C157	1-115-185-11	CERAMIC CHIP 0.033uF 10%	50V				
C158	1-126-947-11	ELECT 47uF 20%	10V	C218	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C161	1-125-898-91	CERAMIC CHIP 0.22uF 10%	50V	C221	1-136-177-00	FILM 1uF 5%	50V
C162	1-125-898-91	CERAMIC CHIP 0.22uF 10%	50V	C222	1-136-177-00	FILM 1uF 5%	50V
C165	1-125-898-91	CERAMIC CHIP 0.22uF 10%	50V	C225	1-136-177-00	FILM 1uF 5%	50V
				C226	1-136-177-00	FILM 1uF 5%	50V
C166	1-125-898-91	CERAMIC CHIP 0.22uF 10%	50V				
C167	1-125-898-91	CERAMIC CHIP 0.22uF 10%	50V	C227	1-136-177-00	FILM 1uF 5%	50V
				C248	1-126-947-11	ELECT 47uF 20%	16V
				C251	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
				C252	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
				C255	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V

HCD-FR10W

AMP

Ref. No.	Part No.	Description	Remark
C256	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C257	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C261	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C262	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C265	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C266	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C267	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C271	1-125-898-91	CERAMIC CHIP 0.22uF 10% 50V	
C272	1-125-898-91	CERAMIC CHIP 0.22uF 10% 50V	
C273	1-125-898-91	CERAMIC CHIP 0.22uF 10% 50V	
C274	1-125-898-91	CERAMIC CHIP 0.22uF 10% 50V	
C275	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C276	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C277	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C278	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C281	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C282	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C283	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C284	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C289	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C290	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C291	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C292	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C293	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C294	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C301	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C302	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C303	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C304	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C305	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C306	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C308	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C309	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C310	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C320	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C321	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C322	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C323	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C324	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C325	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C326	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C327	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C328	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C329	1-126-947-11	ELECT 47uF 20% 16V	
C330	1-126-947-11	ELECT 47uF 20% 16V	
C331	1-126-947-11	ELECT 47uF 20% 16V	
C335	1-126-947-11	ELECT 47uF 20% 16V	
C336	1-126-947-11	ELECT 47uF 20% 16V	
C337	1-126-947-11	ELECT 47uF 20% 16V	
C350	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	
C351	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C352	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C353	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C354	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C355	1-126-933-11	ELECT 100uF 20% 16V	
C356	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C357	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	

Ref. No.	Part No.	Description	Remark
C358	1-126-925-91	ELECT 470uF 20% 10V	
C359	1-126-925-91	ELECT 470uF 20% 10V	
C360	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C361	1-126-947-11	ELECT 47uF 20% 25V	
C362	1-104-658-91	ELECT 100uF 20% 10V	
C363	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C366	1-126-934-11	ELECT 220uF 20% 16V	
C367	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C368	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C370	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C371	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C372	1-126-960-11	ELECT 1uF 20% 50V	
C374	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C375	1-126-933-11	ELECT 100uF 20% 16V	
C377	1-126-964-11	ELECT 10uF 20% 50V	
C380	1-126-923-91	ELECT 220uF 20% 10V	
C381	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C382	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C383	1-162-915-11	CERAMIC CHIP 10PF 0.5PF 50V	
C384	1-162-910-11	CERAMIC CHIP 5PF 0.25PF 50V	
C385	1-164-505-11	CERAMIC CHIP 2.2uF 16V	
C391	1-164-505-11	CERAMIC CHIP 2.2uF 16V	
C392	1-164-505-11	CERAMIC CHIP 2.2uF 16V	
C395	1-164-505-11	CERAMIC CHIP 2.2uF 16V	
C396	1-117-370-11	CERAMIC CHIP 10uF 10V	
C397	1-117-370-11	CERAMIC CHIP 10uF 10V	
C402	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C403	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C404	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C405	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C406	1-162-968-11	CERAMIC CHIP 0.0047uF 10% 50V	
< CONNECTOR >			
CN300	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P	
CN301	1-779-285-11	CONNECTOR, FFC (LIF (NON-ZIF)) 17P	
CN302	1-779-277-11	CONNECTOR, FFC (LIF (NON-ZIF)) 9P	
CN306	1-691-766-21	PLUG (MICRO CONNECTOR) 4P	
* CN313	1-564-243-11	PIN, CONNECTOR (3.96mm PITCH) 6P	
< DIODE >			
D101	6-500-260-01	DIODE P6SMB39AT3	
D102	6-500-260-01	DIODE P6SMB39AT3	
D105	6-500-260-01	DIODE P6SMB39AT3	
D106	6-500-260-01	DIODE P6SMB39AT3	
D107	6-500-260-01	DIODE P6SMB39AT3	
D201	6-500-260-01	DIODE P6SMB39AT3	
D202	6-500-260-01	DIODE P6SMB39AT3	
D205	6-500-260-01	DIODE P6SMB39AT3	
D206	6-500-260-01	DIODE P6SMB39AT3	
D207	6-500-260-01	DIODE P6SMB39AT3	
D208	8-719-421-15	DIODE MA8027-H-TX	
D303	8-719-988-61	DIODE 1SS355TE-17	
D304	8-719-988-61	DIODE 1SS355TE-17	
< FERRITE BEAD >			
FB301	1-469-760-21	FERRITE, EMI (SMD) (2012)	

AMP

Ref. No.	Part No.	Description	Remark		
< IC >					
IC101	6-704-802-01	IC CXD9774M			
IC102	6-704-802-01	IC CXD9774M			
IC105	6-704-802-01	IC CXD9774M			
IC106	6-704-802-01	IC CXD9774M			
IC107	6-704-802-01	IC CXD9774M			
IC108	6-705-979-01	IC CXD9788AR			
IC110	6-705-979-01	IC CXD9788AR			
IC301	6-705-720-01	IC RC4580IDR			
IC303	6-702-300-01	IC TK11118CSCL-G			
IC305	6-701-189-01	IC MC74VHC1GU04DFT1			
< COIL >					
L121	1-456-680-11	INDUCTOR	10uH		
L122	1-456-680-11	INDUCTOR	10uH		
L125	1-456-680-11	INDUCTOR	10uH		
L126	1-456-680-11	INDUCTOR	10uH		
L127	1-456-680-11	INDUCTOR	10uH		
L131	1-456-680-11	INDUCTOR	10uH		
L132	1-456-680-11	INDUCTOR	10uH		
L135	1-456-680-11	INDUCTOR	10uH		
L136	1-456-680-11	INDUCTOR	10uH		
L137	1-456-680-11	INDUCTOR	10uH		
L301	1-469-525-91	INDUCTOR	10uH		
L302	1-412-939-11	INDUCTOR	1uH		
< TRANSISTOR >					
Q101	8-729-602-36	TRANSISTOR	2SA1602TP-1EF		
Q102	8-729-602-36	TRANSISTOR	2SA1602TP-1EF		
Q103	8-729-602-36	TRANSISTOR	2SA1602TP-1EF		
Q104	8-729-602-36	TRANSISTOR	2SA1602TP-1EF		
Q109	8-729-602-36	TRANSISTOR	2SA1602TP-1EF		
Q110	8-729-602-36	TRANSISTOR	2SA1602TP-1EF		
Q111	8-729-602-36	TRANSISTOR	2SA1602TP-1EF		
Q112	8-729-602-36	TRANSISTOR	2SA1602TP-1EF		
Q113	8-729-602-36	TRANSISTOR	2SA1602TP-1EF		
Q114	8-729-602-36	TRANSISTOR	2SA1602TP-1EF		
Q301	8-729-034-51	TRANSISTOR	KTC3875		
Q303	8-729-801-84	TRANSISTOR	2SB1013-TP-34		
Q304	8-729-038-68	TRANSISTOR	KRC103S		
< RESISTOR >					
R108	1-216-837-11	METAL CHIP	22K	5%	1/10W
R109	1-216-837-11	METAL CHIP	22K	5%	1/10W
R110	1-216-837-11	METAL CHIP	22K	5%	1/10W
R111	1-216-837-11	METAL CHIP	22K	5%	1/10W
R116	1-216-837-11	METAL CHIP	22K	5%	1/10W
R117	1-216-837-11	METAL CHIP	22K	5%	1/10W
R118	1-216-837-11	METAL CHIP	22K	5%	1/10W
R119	1-216-837-11	METAL CHIP	22K	5%	1/10W
R120	1-216-837-11	METAL CHIP	22K	5%	1/10W
R128	1-216-837-11	METAL CHIP	22K	5%	1/10W
R129	1-216-809-11	METAL CHIP	100	5%	1/10W
R131	1-216-864-11	SHORT CHIP	0		
R132	1-216-864-11	SHORT CHIP	0		
R135	1-216-864-11	SHORT CHIP	0		
R136	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description	Remark		
R137	1-216-864-11	SHORT CHIP	0		
R138	1-216-864-11	SHORT CHIP	0		
R139	1-216-864-11	SHORT CHIP	0		
R141	1-216-864-11	SHORT CHIP	0		
R142	1-216-864-11	SHORT CHIP	0		
R145	1-216-864-11	SHORT CHIP	0		
R146	1-216-864-11	SHORT CHIP	0		
R147	1-216-864-11	SHORT CHIP	0		
R151	1-216-864-11	SHORT CHIP	0		
R152	1-216-864-11	SHORT CHIP	0		
R155	1-216-864-11	SHORT CHIP	0		
R156	1-216-864-11	SHORT CHIP	0		
R157	1-216-864-11	SHORT CHIP	0		
R161	1-216-864-11	SHORT CHIP	0		
R162	1-216-864-11	SHORT CHIP	0		
R165	1-216-864-11	SHORT CHIP	0		
R166	1-216-864-11	SHORT CHIP	0		
R167	1-216-864-11	SHORT CHIP	0		
R171	1-216-864-11	SHORT CHIP	0		
R172	1-216-864-11	SHORT CHIP	0		
R175	1-216-864-11	SHORT CHIP	0		
R176	1-216-864-11	SHORT CHIP	0		
R177	1-216-864-11	SHORT CHIP	0		
R191	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R192	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R195	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R196	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R197	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R201	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R202	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R205	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R206	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R207	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R211	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R212	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R215	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R216	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R217	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R221	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R222	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R225	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R226	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R227	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R229	1-216-809-11	METAL CHIP	100	5%	1/10W
R235	1-216-809-11	METAL CHIP	100	5%	1/10W
R237	1-216-809-11	METAL CHIP	100	5%	1/10W
R239	1-216-809-11	METAL CHIP	100	5%	1/10W
R241	1-216-809-11	METAL CHIP	100	5%	1/10W
R242	1-216-809-11	METAL CHIP	100	5%	1/10W
R245	1-216-809-11	METAL CHIP	100	5%	1/10W
R246	1-216-809-11	METAL CHIP	100	5%	1/10W
R247	1-216-809-11	METAL CHIP	100	5%	1/10W
R300	1-216-817-11	METAL CHIP	470	5%	1/10W
R302	1-216-817-11	METAL CHIP	470	5%	1/10W
R303	1-216-817-11	METAL CHIP	470	5%	1/10W
R304	1-216-817-11	METAL CHIP	470	5%	1/10W
R305	1-216-817-11	METAL CHIP	470	5%	1/10W
R306	1-216-817-11	METAL CHIP	470	5%	1/10W

HCD-FR10W

AMP	CONTROL KEY
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Ref. No.	Part No.	Description	Remark
R308	1-216-817-11	METAL CHIP 470	5%
R309	1-216-864-11	SHORT CHIP 0	1/10W
R310	1-216-809-11	METAL CHIP 100	5%
R311	1-216-809-11	METAL CHIP 100	5%
R312	1-216-809-11	METAL CHIP 100	5%
R313	1-216-809-11	METAL CHIP 100	5%
R314	1-216-809-11	METAL CHIP 100	5%
R315	1-216-803-11	METAL CHIP 33	5%
R316	1-216-817-11	METAL CHIP 470	5%
R317	1-216-817-11	METAL CHIP 470	5%
R319	1-216-833-11	METAL CHIP 10K	5%
R320	1-216-864-11	SHORT CHIP 0	1/10W
R321	1-216-864-11	SHORT CHIP 0	5%
R322	1-216-833-11	METAL CHIP 10K	1/10W
R323	1-216-864-11	SHORT CHIP 0	
R325	1-216-864-11	SHORT CHIP 0	
R326	1-216-864-11	SHORT CHIP 0	
R328	1-216-864-11	SHORT CHIP 0	
R329	1-216-864-11	SHORT CHIP 0	
R330	1-216-837-11	METAL CHIP 22K	5%
R331	1-216-837-11	METAL CHIP 22K	5%
R332	1-216-837-11	METAL CHIP 22K	5%
R333	1-216-837-11	METAL CHIP 22K	5%
R334	1-216-837-11	METAL CHIP 22K	5%
R335	1-216-837-11	METAL CHIP 22K	5%
R336	1-216-837-11	METAL CHIP 22K	5%
R337	1-216-837-11	METAL CHIP 22K	5%
R338	1-218-725-11	METAL CHIP 24K	5%
R339	1-218-725-11	METAL CHIP 24K	5%
R340	1-216-839-11	METAL CHIP 33K	5%
R341	1-216-839-11	METAL CHIP 33K	5%
R342	1-216-864-11	SHORT CHIP 0	1/10W
R343	1-216-864-11	SHORT CHIP 0	5%
R345	1-216-833-11	METAL CHIP 10K	1/10W
R346	1-216-817-11	METAL CHIP 470	5%
R347	1-216-833-11	METAL CHIP 10K	5%
R348	1-216-817-11	METAL CHIP 470	5%
R349	1-216-825-11	METAL CHIP 2.2K	5%
R350	1-216-826-11	METAL CHIP 2.7K	5%
R351	1-216-817-11	METAL CHIP 470	5%
R361	1-216-845-11	METAL CHIP 100K	5%
R362	1-216-845-11	METAL CHIP 100K	5%
R365	1-216-845-11	METAL CHIP 100K	5%
R366	1-216-845-11	METAL CHIP 100K	5%
R367	1-216-845-11	METAL CHIP 100K	5%
R371	1-216-818-11	METAL CHIP 560	5%
R372	1-216-818-11	METAL CHIP 560	5%
R373	1-216-818-11	METAL CHIP 560	5%
R374	1-216-818-11	METAL CHIP 560	5%
R379	1-216-818-11	METAL CHIP 560	5%
R380	1-216-818-11	METAL CHIP 560	5%
R381	1-216-818-11	METAL CHIP 560	5%
R382	1-216-818-11	METAL CHIP 560	5%
R383	1-216-818-11	METAL CHIP 560	5%
R384	1-216-818-11	METAL CHIP 560	5%
R393	1-216-801-11	METAL CHIP 22	5%
R394	1-216-857-11	METAL CHIP 1M	5%

Ref. No.	Part No.	Description	Remark
R395	1-216-845-11	METAL CHIP 100K	5%
R396	1-216-809-11	METAL CHIP 100	5%
R400	1-216-845-11	METAL CHIP 100K	5%
R401	1-216-845-11	METAL CHIP 100K	5%
R402	1-216-845-11	METAL CHIP 100K	5%
R403	1-216-845-11	METAL CHIP 100K	5%
R404	1-216-845-11	METAL CHIP 100K	5%
R409	1-216-845-11	METAL CHIP 100K	5%
R410	1-216-845-11	METAL CHIP 100K	5%
R411	1-216-845-11	METAL CHIP 100K	5%
R412	1-216-845-11	METAL CHIP 100K	5%
R413	1-216-845-11	METAL CHIP 100K	5%
R414	1-216-845-11	METAL CHIP 100K	5%
R425	1-216-817-11	METAL CHIP 470	5%
R426	1-216-818-11	METAL CHIP 560	5%
R427	1-216-818-11	METAL CHIP 560	5%
R428	1-216-841-11	METAL CHIP 47K	5%
R429	1-216-829-11	METAL CHIP 4.7K	5%
R430	1-216-833-11	METAL CHIP 10K	5%
R431	1-216-845-11	METAL CHIP 100K	5%
R450	1-216-833-11	METAL CHIP 10K	5%
R451	1-216-833-11	METAL CHIP 10K	5%
R452	1-216-833-11	METAL CHIP 10K	5%
R453	1-216-833-11	METAL CHIP 10K	5%
R454	1-216-833-11	METAL CHIP 10K	5%
R455	1-216-833-11	METAL CHIP 10K	5%
R456	1-216-833-11	METAL CHIP 10K	5%
R457	1-216-833-11	METAL CHIP 10K	5%
R458	1-216-833-11	METAL CHIP 10K	5%
R459	1-216-833-11	METAL CHIP 10K	5%
R481	1-216-833-11	METAL CHIP 10K	5%
R482	1-216-833-11	METAL CHIP 10K	5%
R483	1-216-833-11	METAL CHIP 10K	5%
R484	1-216-833-11	METAL CHIP 10K	5%
R485	1-216-833-11	METAL CHIP 10K	5%
R486	1-216-833-11	METAL CHIP 10K	5%
R487	1-216-833-11	METAL CHIP 10K	5%
R488	1-216-833-11	METAL CHIP 10K	5%
R489	1-216-833-11	METAL CHIP 10K	5%
R490	1-216-833-11	METAL CHIP 10K	5%
R494	1-216-833-11	METAL CHIP 10K	5%
R495	1-216-833-11	METAL CHIP 10K	5%
R496	1-216-833-11	METAL CHIP 10K	5%
R497	1-216-833-11	METAL CHIP 10K	5%
< VIBRATOR >			
X450	1-795-660-21	QUARTZ CRYSTAL UNIT 49.152MHz	

CONTROL KEY BOARD			

< CAPACITOR >			
C816	1-100-566-91	CERAMIC CHIP 0.1uF	10% 25V
C844	1-100-566-91	CERAMIC CHIP 0.1uF	10% 25V
C845	1-100-566-91	CERAMIC CHIP 0.1uF	10% 25V
C851	1-100-566-91	CERAMIC CHIP 0.1uF	10% 25V
C852	1-100-566-91	CERAMIC CHIP 0.1uF	10% 25V

CONTROL KEY

DDCON

DIAT PW

Ref. No.	Part No.	Description	Remark		
C857	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C858	1-164-733-11	CERAMIC CHIP	820PF	10%	50V
< CONNECTOR >					
CN810	1-784-859-21	CONNECTOR, FFC (LIF (NON-ZIF)) 7P			
< RESISTOR >					
R860	1-216-864-11	SHORT CHIP	0		
R861	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R866	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R867	1-216-864-11	SHORT CHIP	0		
R868	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R874	1-216-833-11	METAL CHIP	10K	5%	1/10W
R875	1-216-837-11	METAL CHIP	22K	5%	1/10W
R876	1-216-841-11	METAL CHIP	47K	5%	1/10W
< SWITCH >					
S801	1-771-884-31	SWITCH, TACTILE (FUNCTION)			
S807	1-771-884-31	SWITCH, TACTILE (▷)			
S808	1-771-884-31	SWITCH, TACTILE (◀◀◀)			
S809	1-771-884-31	SWITCH, TACTILE (+ (VOLUME))			
S815	1-771-884-31	SWITCH, TACTILE (■)			
S816	1-771-884-31	SWITCH, TACTILE (▶▶▶)			
S817	1-771-884-31	SWITCH, TACTILE (- (VOLUME))			
S818	1-771-884-31	SWITCH, TACTILE (≡)			

A-4751-769-A	DDCON BOARD, COMPLETE				

< CAPACITOR >					
C817	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C818	1-124-584-00	ELECT	100uF	20%	10V
C819	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C820	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C821	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C822	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C823	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C824	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C825	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C826	1-124-234-00	ELECT	22uF	20%	10V
C827	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C828	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C829	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C830	1-163-037-11	CERAMIC CHIP	0.022uF	10%	50V
C831	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C832	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C833	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C834	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C835	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C836	1-126-795-11	ELECT	10uF	20%	50V
C837	1-164-360-11	CERAMIC CHIP	0.1uF		16V
< CONNECTOR >					
CN800	1-779-285-11	CONNECTOR, FFC (LIF (NON-ZIF)) 17P			
CN801	1-779-285-11	CONNECTOR, FFC (LIF (NON-ZIF)) 17P			
CN802	1-779-281-11	CONNECTOR, FFC (LIF (NON-ZIF)) 13P			

Ref. No.	Part No.	Description	Remark		
< DIODE >					
D810	8-719-988-61	DIODE 1SS355TE-17			
D811	8-719-988-61	DIODE 1SS355TE-17			
D813	8-719-988-61	DIODE 1SS355TE-17			
D814	8-719-988-61	DIODE 1SS355TE-17			
D815	8-719-069-56	DIODE UDZSTE-176.2B			
< FERRITE BEAD >					
FB001	1-469-324-21	FERRITE, EMI (SMD) (2012)			
FB002	1-469-324-21	FERRITE, EMI (SMD) (2012)			
FB003	1-469-324-21	FERRITE, EMI (SMD) (2012)			
FB806	1-414-813-11	FERRITE, EMI (SMD) (2012)			
FB808	1-414-813-11	FERRITE, EMI (SMD) (2012)			
< IC >					
IC802	8-759-366-45	IC NJU3713G (TE2)			
< COIL >					
L804	1-410-671-31	INDUCTOR	47uH		
L805	1-400-135-11	INDUCTOR	1uH		
L806	1-400-135-11	INDUCTOR	1uH		
L807	1-400-135-11	INDUCTOR	1uH		
< TRANSISTOR >					
Q802	6-550-065-01	TRANSISTOR	CPH5504-TL-E		
< RESISTOR >					
R806	1-216-864-11	SHORT CHIP	0		
R814	1-216-809-11	METAL CHIP	100	5%	1/10W
R815	1-216-864-11	SHORT CHIP	0		
R817	1-216-809-11	METAL CHIP	100	5%	1/10W
R818	1-216-809-11	METAL CHIP	100	5%	1/10W
R819	1-216-809-11	METAL CHIP	100	5%	1/10W
R823	1-216-841-11	METAL CHIP	47K	5%	1/10W
R826	1-216-820-11	METAL CHIP	820	5%	1/10W
R827	1-216-820-11	METAL CHIP	820	5%	1/10W
R829	1-216-820-11	METAL CHIP	820	5%	1/10W
R830	1-216-820-11	METAL CHIP	820	5%	1/10W
R831	1-216-820-11	METAL CHIP	820	5%	1/10W
R833	1-216-820-11	METAL CHIP	820	5%	1/10W
R834	1-216-820-11	METAL CHIP	820	5%	1/10W
R835	1-216-820-11	METAL CHIP	820	5%	1/10W
R837	1-216-820-11	METAL CHIP	820	5%	1/10W
R838	1-216-820-11	METAL CHIP	820	5%	1/10W
R839	1-216-839-11	METAL CHIP	33K	5%	1/10W
R841	1-216-809-11	METAL CHIP	100	5%	1/10W
R850	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
< TRANSFORMER >					
T801	1-443-325-11	TRANSFORMER, DC-DC CONVERTER			

DIAT PW BOARD					

< CAPACITOR >					
C900	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
C901	1-128-950-21	ELECT	1000uF	20%	16V

HCD-FR10W

DIAT PW	DIAT SPK	DIAT TRANSMIT
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Ref. No.	Part No.	Description	Remark
C902	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C904	1-128-950-21	ELECT 1000uF 20%	16V

< CONNECTOR >

CN902	1-564-505-11	PLUG, CONNECTOR 2P
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< IC >

IC900 6-700-830-01 IC KIA7809API

DIAT SPK BOARD

< CAPACITOR >

C340	1-162-294-31	CERAMIC 0.001uF 10%	50V
C341	1-162-294-31	CERAMIC 0.001uF 10%	50V
C342	1-162-294-31	CERAMIC 0.001uF 10%	50V
C343	1-162-294-31	CERAMIC 0.001uF 10%	50V
C344	1-162-294-31	CERAMIC 0.001uF 10%	50V

C345	1-162-294-31	CERAMIC 0.001uF 10%	50V
C481	1-164-245-11	CERAMIC CHIP 0.015uF 10%	25V
C482	1-164-245-11	CERAMIC CHIP 0.015uF 10%	25V
C483	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C484	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V

C485	1-164-245-11	CERAMIC CHIP 0.015uF 10%	25V
C486	1-164-245-11	CERAMIC CHIP 0.015uF 10%	25V
C487	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C488	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C491	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V

C492	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C500	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C502	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V

< CONNECTOR >

CN301	1-564-505-11	PLUG, CONNECTOR 2P
* CN309	1-564-243-11	PIN, CONNECTOR (3.96mm PITCH) 6P
CN312	1-691-766-21	PLUG (MICRO CONNECTOR) 4P

< GROUND TERMINAL BOARD >

GP307	1-537-770-21	TERMINAL BOARD, GROUND
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< JACK >

J301	1-818-634-11	JACK, PIN 1P (WIRELESS SPEAKER)
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< TERMINAL >

TB301	1-780-123-11	TERMINAL BOARD (SPEAKER)
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A-1079-939-A DIAT TRANSMIT BOARD, COMPLETE

< CAPACITOR >

C801	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C802	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C803	1-126-933-11	ELECT 100uF 20%	16V
C805	1-126-933-11	ELECT 100uF 20%	16V
C806	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V

Ref. No.	Part No.	Description	Remark
C807	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C808	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C809	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C810	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C811	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V

C812	1-104-658-91	ELECT 100uF 20%	10V
C813	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C814	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C815	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C816	1-162-927-11	CERAMIC CHIP 100PF 5%	50V

C817	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C818	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C819	1-162-916-11	CERAMIC CHIP 12PF 5%	50V
C820	1-162-916-11	CERAMIC CHIP 12PF 5%	50V
C821	1-104-658-91	ELECT 100uF 20%	10V

C822	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C823	1-107-726-91	CERAMIC CHIP 0.01uF 10%	16V
C824	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C825	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
C826	1-104-658-91	ELECT 100uF 20%	10V

C827	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C828	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C829	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
C830	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C831	1-162-927-11	CERAMIC CHIP 100PF 5%	50V

C832	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V
C833	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C834	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C835	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
C836	1-164-156-11	CERAMIC CHIP 0.1uF	25V

C837	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C838	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C839	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C840	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C841	1-126-961-11	ELECT 2.2uF 20%	50V

C842	1-164-230-11	CERAMIC CHIP 220PF 5%	50V
C844	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C845	1-104-658-91	ELECT 100uF 20%	10V
C846	1-107-726-91	CERAMIC CHIP 0.01uF 10%	16V
C847	1-126-933-11	ELECT 100uF 20%	16V

C848	1-107-726-91	CERAMIC CHIP 0.01uF 10%	16V
C849	1-126-933-11	ELECT 100uF 20%	16V
C850	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C851	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C860	1-164-156-11	CERAMIC CHIP 0.1uF	25V

C861	1-164-156-11	CERAMIC CHIP 0.1uF	25V
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< CONNECTOR >

CN801	1-784-370-31	CONNECTOR, FFC/FPC 11P
CN802	1-564-505-11	PLUG, CONNECTOR 2P
CN803	1-564-505-11	PLUG, CONNECTOR 2P

< DIODE >

D800	8-719-988-61	DIODE 1SS355TE-17
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< GROUND TERMINAL BOARD >

EB801	1-537-770-21	TERMINAL BOARD, GROUND
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DIAT TRANSMIT

DISC KEY

Ref. No.	Part No.	Description	Remark			
EB802	1-537-770-21	TERMINAL BOARD, GROUND				
		< FERRITE BEAD >				
FB801	1-469-835-21	INDUCTOR, FERRITE BEAD				
FB802	1-469-835-21	INDUCTOR, FERRITE BEAD				
FB804	1-414-234-22	INDUCTOR, FERRITE BEAD				
		< IC >				
IC801	6-704-261-01	IC TK11225CMCL-G				
IC802	8-759-491-47	IC TC74VHCT08AFT (EL)				
IC803	8-759-549-01	IC SN74LV125APWR				
IC804	8-752-425-05	IC CXD4016R				
IC805	8-759-684-21	IC AD8057ART-REEL7				
		< SHORT >				
JR801	1-216-809-11	METAL CHIP	100	5%	1/10W	
JR802	1-216-809-11	METAL CHIP	100	5%	1/10W	
JR803	1-216-809-11	METAL CHIP	100	5%	1/10W	
JR804	1-216-864-11	SHORT CHIP	0			
JR805	1-216-864-11	SHORT CHIP	0			
JR806	1-216-864-11	SHORT CHIP	0			
		< COIL >				
L801	1-469-525-91	INDUCTOR	10uH			
L802	1-469-525-91	INDUCTOR	10uH			
L803	1-469-525-91	INDUCTOR	10uH			
L804	1-469-525-91	INDUCTOR	10uH			
L805	1-469-525-91	INDUCTOR	10uH			
L806	1-469-525-91	INDUCTOR	10uH			
L807	1-469-525-91	INDUCTOR	10uH			
L808	1-469-525-91	INDUCTOR	10uH			
L809	1-469-525-91	INDUCTOR	10uH			
L810	1-469-525-91	INDUCTOR	10uH			
L811	1-400-305-11	INDUCTOR	47uH			
L812	1-456-509-11	INDUCTOR	10uH			
		< TRANSISTOR >				
Q801	8-729-230-49	TRANSISTOR	2SC2712G-TE85L			
		< RESISTOR >				
R802	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R803	1-216-809-11	METAL CHIP	100	5%	1/10W	
R804	1-216-809-11	METAL CHIP	100	5%	1/10W	
R805	1-216-809-11	METAL CHIP	100	5%	1/10W	
R806	1-216-809-11	METAL CHIP	100	5%	1/10W	
R807	1-216-809-11	METAL CHIP	100	5%	1/10W	
R808	1-216-809-11	METAL CHIP	100	5%	1/10W	
R809	1-216-809-11	METAL CHIP	100	5%	1/10W	
R810	1-216-809-11	METAL CHIP	100	5%	1/10W	
R811	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R812	1-216-815-11	METAL CHIP	330	5%	1/10W	
R813	1-216-813-11	METAL CHIP	220	5%	1/10W	
R814	1-216-809-11	METAL CHIP	100	5%	1/10W	
R815	1-216-815-11	METAL CHIP	330	5%	1/10W	
R816	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R817	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R818	1-216-821-11	METAL CHIP	1K	5%	1/10W	

Ref. No.	Part No.	Description			Remark
R819	1-216-821-11	METAL CHIP	1K	5%	1/10W
R820	1-216-813-11	METAL CHIP	220	5%	1/10W
R821	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R822	1-216-811-11	METAL CHIP	150	5%	1/10W
R823	1-216-813-11	METAL CHIP	220	5%	1/10W
R824	1-216-817-11	METAL CHIP	470	5%	1/10W
R825	1-216-833-11	METAL CHIP	10K	5%	1/10W
R826	1-216-811-11	METAL CHIP	150	5%	1/10W
R827	1-216-811-11	METAL CHIP	150	5%	1/10W
R829	1-216-835-11	METAL CHIP	15K	5%	1/10W
R830	1-216-833-11	METAL CHIP	10K	5%	1/10W
R831	1-220-397-11	METAL CHIP	4.7M	5%	1/10W
R832	1-216-833-11	METAL CHIP	10K	5%	1/10W
R833	1-216-833-11	METAL CHIP	10K	5%	1/10W
R834	1-216-833-11	METAL CHIP	10K	5%	1/10W
R835	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R836	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R837	1-216-803-11	METAL CHIP	33	5%	1/10W
R838	1-216-821-11	METAL CHIP	1K	5%	1/10W
		< VARIABLE RESISTOR >			
RV801	1-223-582-11	RES, ADJ, CARBON		470	
		< VIBRATOR >			
X801	1-795-044-21	VIBRATOR, CRYSTAL 24.576MHZ			

		DISC KEY BOARD			

		< CONNECTOR >			
CN804	1-779-550-21	CONNECTOR, FFC (LIF (NON-ZIF)) 13P			
		< DIODE >			
D806	8-719-079-89	DIODE	SML-020MDT-T86 (DISC 1)		
D807	8-719-079-89	DIODE	SML-020MDT-T86 (DISC 2)		
D808	8-719-079-89	DIODE	SML-020MDT-T86 (DISC 3)		
D809	8-719-079-89	DIODE	SML-020MDT-T86 (DISC 4)		
D812	8-719-079-89	DIODE	SML-020MDT-T86 (DISC 5)		
		< RESISTOR >			
R862	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R863	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R864	1-216-833-11	METAL CHIP	10K	5%	1/10W
R865	1-216-837-11	METAL CHIP	22K	5%	1/10W
R869	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R870	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R871	1-216-833-11	METAL CHIP	10K	5%	1/10W
R872	1-216-837-11	METAL CHIP	22K	5%	1/10W
R873	1-216-841-11	METAL CHIP	47K	5%	1/10W
		< SWITCH >			
S802	1-771-884-31	SWITCH, TACTILE (▲ (DISC 1))			
S803	1-771-884-31	SWITCH, TACTILE (▲ (DISC 2))			
S804	1-771-884-31	SWITCH, TACTILE (▲ (DISC 3))			
S805	1-771-884-31	SWITCH, TACTILE (▲ (DISC 4))			
S806	1-771-884-31	SWITCH, TACTILE (▲ (DISC 5))			

HCD-FR10W

DISC KEY

DMB08

Ref. No.	Part No.	Description	Remark		
S810	1-771-884-31	SWITCH, TACTILE (DISC 1)			
S811	1-771-884-31	SWITCH, TACTILE (DISC 2)			
S812	1-771-884-31	SWITCH, TACTILE (DISC 3)			
S813	1-771-884-31	SWITCH, TACTILE (DISC 4)			
S814	1-771-884-31	SWITCH, TACTILE (DISC 5)			

A-1066-572-A		DMB08 BOARD, COMPLETE			

< CAPACITOR >					
C001	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C002	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C003	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C004	1-126-204-11	ELECT CHIP	47uF	20%	16V
C005	1-126-246-11	ELECT CHIP	220uF	20%	4V
C006	1-117-681-11	ELECT CHIP	100uF	20%	16V
C008	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C009	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C010	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C011	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C014	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C015	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C016	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C017	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C018	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C019	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C020	1-126-246-11	ELECT CHIP	220uF	20%	4V
C022	1-126-209-11	ELECT CHIP	100uF	20%	4V
C201	1-126-246-11	ELECT CHIP	220uF	20%	4V
C203	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C204	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C217	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C219	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C225	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C226	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C228	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C229	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C230	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C231	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C232	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C233	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C234	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C235	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C236	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C237	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C238	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C239	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C240	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C241	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C242	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C243	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C244	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C245	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C246	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C247	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C248	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C249	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C250	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V

Ref. No.	Part No.	Description	Remark
C251	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V
C252	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V
C253	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V
C254	1-117-370-11	CERAMIC CHIP 10uF	10V
C255	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V
C257	1-117-370-11	CERAMIC CHIP 10uF	10V
C258	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V
C259	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V
C260	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V
C261	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V
C262	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V
C263	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V
C264	1-117-370-11	CERAMIC CHIP 10uF	10V
C265	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V
C266	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V
C267	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V
C268	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V
C269	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V
C270	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V
C271	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V
C274	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V
C301	1-117-370-11	CERAMIC CHIP 10uF	10V
C302	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V
C303	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V
C304	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V
C307	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V
C308	1-127-772-81	CERAMIC CHIP 33000PF	10% 10V
C309	1-164-874-11	CERAMIC CHIP 100PF	5% 50V
C310	1-164-874-11	CERAMIC CHIP 100PF	5% 50V
C311	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V
C312	1-117-370-11	CERAMIC CHIP 10uF	10V
C313	1-107-820-11	CERAMIC CHIP 0.1uF	16V
C314	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V
C315	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V
C316	1-124-779-00	ELECT CHIP 10uF	20% 16V
C317	1-164-852-11	CERAMIC CHIP 12PF	5% 50V
C318	1-164-852-11	CERAMIC CHIP 12PF	5% 50V
C319	1-164-862-11	CERAMIC CHIP 33PF	5% 50V
C320	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V
C355	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V
C356	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V
C401	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C402	1-117-370-11	CERAMIC CHIP 10uF	10V
C404	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C405	1-124-779-00	ELECT CHIP 10uF	20% 16V
C406	1-164-939-11	CERAMIC CHIP 0.0022uF	10% 50V
C407	1-117-370-11	CERAMIC CHIP 10uF	10V
C408	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C409	1-164-939-11	CERAMIC CHIP 0.0022uF	10% 50V
C410	1-124-779-00	ELECT CHIP 10uF	20% 16V
C411	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C412	1-164-939-11	CERAMIC CHIP 0.0022uF	10% 50V
C413	1-164-939-11	CERAMIC CHIP 0.0022uF	10% 50V
C414	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V
C415	1-164-943-11	CERAMIC CHIP 0.01uF	10% 16V
C416	1-117-370-11	CERAMIC CHIP 10uF	10V
C417	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V

DMB08

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C418	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C628	1-124-779-00	ELECT CHIP	10uF	20%	16V
C419	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V	C629	1-164-854-11	CERAMIC CHIP	15PF	5%	50V
C420	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V						
C421	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C630	1-117-370-11	CERAMIC CHIP	10uF		10V
C422	1-164-874-11	CERAMIC CHIP	100PF	5%	50V	C631	1-107-820-11	CERAMIC CHIP	0.1uF		16V
						C632	1-164-854-11	CERAMIC CHIP	15PF	5%	50V
C423	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C633	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C424	1-107-819-11	CERAMIC CHIP	0.022uF	10%	16V	C634	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C425	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V						
C426	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C635	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C427	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V	C636	1-107-820-11	CERAMIC CHIP	0.1uF		16V
						C637	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C428	1-164-940-11	CERAMIC CHIP	0.0033uF	10%	16V	C638	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C432	1-164-874-11	CERAMIC CHIP	100PF	5%	50V	C639	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C433	1-164-938-11	CERAMIC CHIP	0.0015uF	10%	50V						
C434	1-117-370-11	CERAMIC CHIP	10uF		10V	C640	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C435	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C641	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
						C642	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C436	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C643	1-126-246-11	ELECT CHIP	220uF	20%	4V
C503	1-127-772-81	CERAMIC CHIP	33000PF	10%	10V	C644	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C504	1-127-772-81	CERAMIC CHIP	33000PF	10%	10V						
C506	1-164-934-11	CERAMIC CHIP	330PF	10%	50V	C646	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C508	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	C647	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
						C648	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C509	1-164-934-11	CERAMIC CHIP	330PF	10%	50V	C650	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C510	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	C651	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C512	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V						
C514	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C652	1-126-246-11	ELECT CHIP	220uF	20%	4V
C519	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C653	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
						C655	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C521	1-164-938-11	CERAMIC CHIP	0.0015uF	10%	50V	C657	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C523	1-164-938-11	CERAMIC CHIP	0.0015uF	10%	50V	C660	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C524	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V						
C525	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C661	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C526	1-126-395-11	ELECT CHIP	22uF	20%	16V	C664	1-117-370-11	CERAMIC CHIP	10uF		10V
						C665	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C527	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C666	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C528	1-126-205-11	ELECT CHIP	47uF	20%	6.3V	C667	1-117-370-11	CERAMIC CHIP	10uF		10V
C529	1-107-820-11	CERAMIC CHIP	0.1uF		16V						
C552	1-107-820-11	CERAMIC CHIP	0.1uF		16V	C668	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C600	1-107-820-11	CERAMIC CHIP	0.1uF		16V	C669	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
						C670	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C601	1-107-820-11	CERAMIC CHIP	0.1uF		16V	C671	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C602	1-117-681-11	ELECT CHIP	100uF	20%	16V	C672	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C603	1-164-858-11	CERAMIC CHIP	22PF	5%	50V						
C604	1-164-868-11	CERAMIC CHIP	56PF	5%	50V	C673	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C607	1-107-820-11	CERAMIC CHIP	0.1uF		16V	C674	1-117-370-11	CERAMIC CHIP	10uF		10V
						C675	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C608	1-107-820-11	CERAMIC CHIP	0.1uF		16V	C679	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C609	1-107-820-11	CERAMIC CHIP	0.1uF		16V	C702	1-126-209-11	ELECT CHIP	100uF	20%	4V
C610	1-126-205-11	ELECT CHIP	47uF	20%	6.3V						
C611	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C703	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C612	1-117-370-11	CERAMIC CHIP	10uF		10V	C706	1-107-820-11	CERAMIC CHIP	0.1uF		16V
						C708	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C613	1-117-370-11	CERAMIC CHIP	10uF		10V	C709	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C614	1-126-193-11	ELECT CHIP	1uF	20%	50V	C711	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C615	1-107-820-11	CERAMIC CHIP	0.1uF		16V						
C616	1-107-820-11	CERAMIC CHIP	0.1uF		16V	C712	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C617	1-107-820-11	CERAMIC CHIP	0.1uF		16V	C713	1-107-820-11	CERAMIC CHIP	0.1uF		16V
						C714	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C618	1-124-779-00	ELECT CHIP	10uF	20%	16V	C715	1-164-938-11	CERAMIC CHIP	0.0015uF	10%	50V
C619	1-107-820-11	CERAMIC CHIP	0.1uF		16V	C716	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C620	1-107-820-11	CERAMIC CHIP	0.1uF		16V						
C622	1-124-779-00	ELECT CHIP	10uF	20%	16V	C717	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C624	1-107-820-11	CERAMIC CHIP	0.1uF		16V	C718	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
						C720	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C625	1-126-193-11	ELECT CHIP	1uF	20%	50V	C721	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C626	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C722	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C627	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V						

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Ref. No.	Part No.	Description	Remark
C723	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C724	1-107-820-11	CERAMIC CHIP 0.1uF	16V
C725	1-107-820-11	CERAMIC CHIP 0.1uF	16V
C726	1-107-820-11	CERAMIC CHIP 0.1uF	16V
C727	1-117-370-11	CERAMIC CHIP 10uF	10V
C728	1-125-777-11	CERAMIC CHIP 0.1uF 10%	10V
C729	1-117-370-11	CERAMIC CHIP 10uF	10V
C730	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C740	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C741	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C742	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C743	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C744	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C745	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C752	1-107-820-11	CERAMIC CHIP 0.1uF	16V
C760	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C761	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C762	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C763	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C764	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C765	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C766	1-164-874-11	CERAMIC CHIP 100PF 5%	50V
C767	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C768	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C769	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C770	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C771	1-119-923-11	CERAMIC CHIP 0.047uF 10%	10V
C772	1-107-820-11	CERAMIC CHIP 0.1uF	16V
C774	1-164-941-11	CERAMIC CHIP 0.0047uF 10%	16V
C775	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C776	1-107-820-11	CERAMIC CHIP 0.1uF	16V
C777	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C778	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C779	1-117-370-11	CERAMIC CHIP 10uF	10V
C780	1-117-370-11	CERAMIC CHIP 10uF	10V
C781	1-117-370-11	CERAMIC CHIP 10uF	10V
C796	1-107-820-11	CERAMIC CHIP 0.1uF	16V
C797	1-126-209-11	ELECT CHIP 100uF 20%	4V
C802	1-117-370-11	CERAMIC CHIP 10uF	10V
C803	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C804	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C805	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C807	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C808	1-164-874-11	CERAMIC CHIP 100PF 5%	50V
C809	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C810	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C811	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C812	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C813	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C815	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C817	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C818	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C819	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C837	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C838	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C839	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C840	1-117-370-11	CERAMIC CHIP 10uF	10V
C841	1-117-370-11	CERAMIC CHIP 10uF	10V

Ref. No.	Part No.	Description	Remark
C842	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C843	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C848	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C849	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C854	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C855	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C856	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C857	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C861	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C865	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C866	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C867	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C870	1-127-772-81	CERAMIC CHIP 33000PF 10%	10V
C871	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C900	1-107-820-11	CERAMIC CHIP 0.1uF	16V
C901	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C902	1-107-820-11	CERAMIC CHIP 0.1uF	16V
C903	1-107-820-11	CERAMIC CHIP 0.1uF	16V
C905	1-164-934-11	CERAMIC CHIP 330PF 10%	50V
C906	1-164-934-11	CERAMIC CHIP 330PF 10%	50V
C907	1-164-937-11	CERAMIC CHIP 0.001uF 10%	50V
C908	1-117-370-11	CERAMIC CHIP 10uF	10V
C909	1-127-715-91	CERAMIC CHIP 0.22uF 10%	16V
C910	1-104-905-11	CAPACITOR 0.22F	5.5V
C911	1-126-205-11	ELECT CHIP 47uF 20%	6.3V
C912	1-126-205-11	ELECT CHIP 47uF 20%	6.3V
C913	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C914	1-164-943-11	CERAMIC CHIP 0.01uF 10%	16V
C916	1-107-820-11	CERAMIC CHIP 0.1uF	16V
C917	1-107-820-11	CERAMIC CHIP 0.1uF	16V
C918	1-164-874-11	CERAMIC CHIP 100PF 5%	50V
C922	1-107-820-11	CERAMIC CHIP 0.1uF	16V
C923	1-107-820-11	CERAMIC CHIP 0.1uF	16V
C924	1-107-820-11	CERAMIC CHIP 0.1uF	16V
C925	1-107-820-11	CERAMIC CHIP 0.1uF	16V
C926	1-107-820-11	CERAMIC CHIP 0.1uF	16V
C927	1-107-820-11	CERAMIC CHIP 0.1uF	16V
C928	1-107-820-11	CERAMIC CHIP 0.1uF	16V
C932	1-125-777-11	CERAMIC CHIP 0.1uF 10%	10V
< CONNECTOR >			
CN001	1-784-368-31	CONNECTOR, FFC/FPC 9P	
CN002	1-778-957-11	CONNECTOR, FFC/FPC 29P	
CN003	1-784-374-31	CONNECTOR, FFC/FPC 15P	
CN004	1-784-376-31	CONNECTOR, FFC/FPC 17P	
CN005	1-784-376-31	CONNECTOR, FFC/FPC 17P	
CN006	1-784-385-31	CONNECTOR, FFC/FPC 28P	
CN008	1-815-875-21	PIN, CONNECTOR (PC BOARD) (12P)	
CN010	1-784-370-31	CONNECTOR, FFC/FPC 11P	
CN301	1-580-756-21	PIN, CONNECTOR (SMD) 7P	
CN401	1-778-957-11	CONNECTOR, FFC/FPC 29P	
CN900	1-784-367-31	CONNECTOR, FFC/FPC 8P	
< DIODE >			
D900	8-719-053-18	DIODE 1SR154-400TE-25	
D901	8-719-053-18	DIODE 1SR154-400TE-25	
D902	8-719-988-61	DIODE 1SS355TE-17	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
D903	8-719-988-61	DIODE 1SS355TE-17		IC006	6-700-398-01	IC uPC2918T-E1	
D904	8-719-988-61	DIODE 1SS355TE-17					
D906	8-719-083-02	DIODE KDS160-RTK		IC202	6-704-069-01	IC HY57V283220T-6	
D907	8-719-988-61	DIODE 1SS355TE-17		* IC203	6-703-671-01	IC BR9040F-WE2	
		< FERRITE BEAD >		IC205	6-804-533-01	IC MR27V3202F-12UTP04B9	
FB001	1-469-324-21	FERRITE, EMI (SMD) (2012)		IC206	6-704-630-01	IC ZIVA5X-C2F	
FB004	1-469-324-21	FERRITE, EMI (SMD) (2012)		IC215	6-700-437-01	IC SN74ALVCH16841DGGR	
FB005	1-469-324-21	FERRITE, EMI (SMD) (2012)					
FB006	1-469-324-21	FERRITE, EMI (SMD) (2012)		IC301	8-753-228-87	IC CXP973064-245R	
FB007	1-469-324-21	FERRITE, EMI (SMD) (2012)		IC302	6-704-004-01	IC BR24L16F-WE2	
FB008	1-469-324-21	FERRITE, EMI (SMD) (2012)		IC303	6-700-407-01	IC SM8707GV-G-E2	
FB009	1-469-324-21	FERRITE, EMI (SMD) (2012)		IC401	8-752-408-73	IC CXD3068Q	
FB010	1-469-324-21	FERRITE, EMI (SMD) (2012)		IC402	8-759-058-43	IC NJM3404AV (TE2)	
FB011	1-469-324-21	FERRITE, EMI (SMD) (2012)					
FB012	1-469-324-21	FERRITE, EMI (SMD) (2012)		IC501	6-702-157-01	IC FAN8035L	
FB013	1-469-324-21	FERRITE, EMI (SMD) (2012)		IC601	6-701-011-01	IC uPC2910T-E1	
FB014	1-469-324-21	FERRITE, EMI (SMD) (2012)		IC603	8-759-337-40	IC NJM2904V (TE2)	
FB201	1-469-324-21	FERRITE, EMI (SMD) (2012)		IC604	6-704-037-01	IC IS61LV6416-10TLT	
FB202	1-469-324-21	FERRITE, EMI (SMD) (2012)		IC605	8-759-835-63	IC NJM2391DL1-26 (TE1)	
FB901	1-469-324-21	FERRITE, EMI (SMD) (2012)					
FB902	1-469-324-21	FERRITE, EMI (SMD) (2012)		IC606	8-759-825-15	IC LC89056W-E	
		< FILTER >		IC607	6-705-900-01	IC CXD9718BQ	
FL003	1-234-177-21	FILTER, CHIP EMI		IC608	6-703-704-01	IC AK4381VT-E2	
FL004	1-234-177-21	FILTER, CHIP EMI		IC609	6-701-834-01	IC PCM1802DBR	
FL005	1-233-893-21	FILTER, CHIP EMI		IC612	6-703-372-01	IC CXD9742Q	
FL006	1-234-177-21	FILTER, CHIP EMI					
FL202	1-234-177-21	FILTER, CHIP EMI		IC701	6-703-552-01	IC TMC57929PGF-RDP	
FL203	1-234-177-21	FILTER, CHIP EMI		IC703	8-759-058-43	IC NJM3404AV (TE2)	
FL204	1-234-177-21	FILTER, CHIP EMI		IC704	6-702-301-01	IC TK11125CSCL-G	
FL301	1-234-177-21	FILTER, CHIP EMI		IC706	6-705-876-01	IC M51V18165M-60TS-KR1	
FL303	1-234-177-21	FILTER, CHIP EMI		IC801	8-752-416-77	IC CXD2753R	
FL304	1-234-177-21	FILTER, CHIP EMI					
FL401	1-234-177-21	FILTER, CHIP EMI		IC802	8-759-058-64	IC TC7S32FU (TE85R)	
FL402	1-234-177-21	FILTER, CHIP EMI		IC803	6-704-753-01	IC SN74AHC2G74HDCUR	
FL603	1-234-177-21	FILTER, CHIP EMI		IC808	6-702-336-01	IC MSM56V16160F-8TK7R1	
FL604	1-234-177-21	FILTER, CHIP EMI		IC812	8-759-549-15	IC SN74LV245APWR	
FL605	1-234-177-21	FILTER, CHIP EMI		IC813	8-759-549-15	IC SN74LV245APWR	
FL606	1-234-177-21	FILTER, CHIP EMI					
FL607	1-234-177-21	FILTER, CHIP EMI		IC814	8-759-680-48	IC TC7WH157FK (TE85R)	
FL701	1-234-177-21	FILTER, CHIP EMI		IC900	8-759-238-47	IC TC74HCT7007AF (EL)	
FL702	1-234-177-21	FILTER, CHIP EMI		IC901	6-804-542-01	IC uPD703033BYGF-M59-3BA-A	
FL703	1-234-177-21	FILTER, CHIP EMI		IC902	6-703-679-11	IC PT8300R-TP	
FL704	1-234-177-21	FILTER, CHIP EMI		IC903	6-703-873-01	IC PST3241NL	
FL705	1-234-177-21	FILTER, CHIP EMI					
FL706	1-234-177-21	FILTER, CHIP EMI		IC904	8-759-648-48	IC TC7W34FU (TE12R)	
FL807	1-234-177-21	FILTER, CHIP EMI		IC906	6-703-679-11	IC PT8300R-TP	
FL810	1-234-177-21	FILTER, CHIP EMI		IC907	6-706-087-01	IC PST3645NR	
FL811	1-233-893-21	FILTER, CHIP EMI		IC7004	8-759-649-46	IC SN74AHC1G08DGKR	
FL812	1-233-893-21	FILTER, CHIP EMI					
		< IC >				< JUMPER RESISTOR >	
IC001	8-759-583-47	IC uPC2933T-E2		JW900	1-218-941-81	RES-CHIP	100 5% 1/16W
IC002	8-759-473-95	IC uPC2905T-E1		JW903	1-218-990-11	SHORT CHIP	0
IC004	8-759-473-95	IC uPC2905T-E1				< COIL >	
IC005	8-759-583-47	IC uPC2933T-E2					
				L301	1-414-754-11	INDUCTOR	10uH
				L600	1-414-754-11	INDUCTOR	10uH
				L601	1-414-754-11	INDUCTOR	10uH
				L602	1-414-754-11	INDUCTOR	10uH
						< TRANSISTOR >	
				Q301	8-729-027-43	TRANSISTOR	DTC114EKA-T146
				Q302	8-729-027-43	TRANSISTOR	DTC114EKA-T146
				Q900	8-729-027-23	TRANSISTOR	DTA114EKA-T146
				Q901	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
				Q902	8-729-027-23	TRANSISTOR	DTA114EKA-T146

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Ref. No.	Part No.	Description	Remark		
Q903	8-729-024-91	TRANSISTOR	2SC2712-GL-TE85L		
Q906	8-729-024-91	TRANSISTOR	2SC2712-GL-TE85L		
Q907	8-729-024-91	TRANSISTOR	2SC2712-GL-TE85L		
Q908	8-729-901-00	TRANSISTOR	DTC124EKA-T146		
Q909	8-729-901-00	TRANSISTOR	DTC124EKA-T146		
Q910	8-729-901-00	TRANSISTOR	DTC124EKA-T146		
Q913	8-729-026-49	TRANSISTOR	2SA1037AK-T146-QR		
Q914	8-729-024-91	TRANSISTOR	2SC2712-GL-TE85L		
< RESISTOR >					
R012	1-218-941-81	RES-CHIP	100	5%	1/16W
R019	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R027	1-218-941-81	RES-CHIP	100	5%	1/16W
R033	1-218-949-11	RES-CHIP	470	5%	1/16W
R035	1-218-949-11	RES-CHIP	470	5%	1/16W
R038	1-218-949-11	RES-CHIP	470	5%	1/16W
R040	1-218-949-11	RES-CHIP	470	5%	1/16W
R042	1-218-949-11	RES-CHIP	470	5%	1/16W
R043	1-218-953-11	RES-CHIP	1K	5%	1/16W
R044	1-218-949-11	RES-CHIP	470	5%	1/16W
R045	1-218-949-11	RES-CHIP	470	5%	1/16W
R046	1-218-949-11	RES-CHIP	470	5%	1/16W
R048	1-218-941-81	RES-CHIP	100	5%	1/16W
R049	1-218-941-81	RES-CHIP	100	5%	1/16W
R050	1-218-990-11	SHORT CHIP	0		
R059	1-218-990-11	SHORT CHIP	0		
R064	1-218-953-11	RES-CHIP	1K	5%	1/16W
R071	1-218-990-11	SHORT CHIP	0		
R076	1-218-990-11	SHORT CHIP	0		
R075	1-218-990-11	SHORT CHIP	0		
R081	1-218-990-11	SHORT CHIP	0		
R085	1-218-990-11	SHORT CHIP	0		
R092	1-218-990-11	SHORT CHIP	0		
R093	1-218-990-11	SHORT CHIP	0		
R094	1-218-990-11	SHORT CHIP	0		
R097	1-218-953-11	RES-CHIP	1K	5%	1/16W
R098	1-218-953-11	RES-CHIP	1K	5%	1/16W
R099	1-218-953-11	RES-CHIP	1K	5%	1/16W
R100	1-218-953-11	RES-CHIP	1K	5%	1/16W
R101	1-218-953-11	RES-CHIP	1K	5%	1/16W
R102	1-218-953-11	RES-CHIP	1K	5%	1/16W
R103	1-218-953-11	RES-CHIP	1K	5%	1/16W
R104	1-218-953-11	RES-CHIP	1K	5%	1/16W
R202	1-218-990-11	SHORT CHIP	0		
R203	1-208-869-11	METAL CHIP	180	0.5%	1/16W
R206	1-218-990-11	SHORT CHIP	0		
R207	1-218-285-11	METAL CHIP	75	5%	1/10W
R208	1-218-285-11	METAL CHIP	75	5%	1/10W
R209	1-218-285-11	METAL CHIP	75	5%	1/10W
R210	1-218-285-11	METAL CHIP	75	5%	1/10W
R212	1-218-933-11	RES-CHIP	22	5%	1/16W
R213	1-218-990-11	SHORT CHIP	0		
R215	1-218-935-11	RES-CHIP	33	5%	1/16W
R216	1-218-935-11	RES-CHIP	33	5%	1/16W
R217	1-218-935-11	RES-CHIP	33	5%	1/16W
R218	1-218-935-11	RES-CHIP	33	5%	1/16W
R219	1-218-935-11	RES-CHIP	33	5%	1/16W
R220	1-218-935-11	RES-CHIP	33	5%	1/16W

Ref. No.	Part No.	Description	Remark		
R221	1-218-935-11	RES-CHIP	33	5%	1/16W
R222	1-218-935-11	RES-CHIP	33	5%	1/16W
R223	1-218-935-11	RES-CHIP	33	5%	1/16W
R224	1-218-935-11	RES-CHIP	33	5%	1/16W
R225	1-218-935-11	RES-CHIP	33	5%	1/16W
R226	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R227	1-218-935-11	RES-CHIP	33	5%	1/16W
R228	1-218-935-11	RES-CHIP	33	5%	1/16W
R229	1-218-935-11	RES-CHIP	33	5%	1/16W
R230	1-218-935-11	RES-CHIP	33	5%	1/16W
R231	1-218-935-11	RES-CHIP	33	5%	1/16W
R232	1-218-990-11	SHORT CHIP	0		
R233	1-218-965-11	RES-CHIP	10K	5%	1/16W
R234	1-218-285-11	METAL CHIP	75	5%	1/10W
R236	1-208-683-11	METAL CHIP	1K	0.5%	1/16W
R238	1-218-941-81	RES-CHIP	100	5%	1/16W
R239	1-218-973-11	RES-CHIP	47K	5%	1/16W
R241	1-218-953-11	RES-CHIP	1K	5%	1/16W
R242	1-218-965-11	RES-CHIP	10K	5%	1/16W
R243	1-218-953-11	RES-CHIP	1K	5%	1/16W
R244	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R245	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R246	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R247	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R248	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R249	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R250	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R252	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R253	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R255	1-218-953-11	RES-CHIP	1K	5%	1/16W
R256	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R257	1-500-284-21	INDUCTOR, FERRITE BEAD			
R258	1-500-284-21	INDUCTOR, FERRITE BEAD			
R259	1-500-284-21	INDUCTOR, FERRITE BEAD			
R260	1-500-284-21	INDUCTOR, FERRITE BEAD			
R261	1-500-284-21	INDUCTOR, FERRITE BEAD			
R262	1-218-285-11	METAL CHIP	75	5%	1/10W
R263	1-218-285-11	METAL CHIP	75	5%	1/10W
R264	1-218-285-11	METAL CHIP	75	5%	1/10W
R265	1-218-285-11	METAL CHIP	75	5%	1/10W
R266	1-218-285-11	METAL CHIP	75	5%	1/10W
R303	1-218-933-11	RES-CHIP	22	5%	1/16W
R304	1-218-933-11	RES-CHIP	22	5%	1/16W
R305	1-218-965-11	RES-CHIP	10K	5%	1/16W
R306	1-218-933-11	RES-CHIP	22	5%	1/16W
R307	1-218-933-11	RES-CHIP	22	5%	1/16W
R308	1-218-933-11	RES-CHIP	22	5%	1/16W
R311	1-218-933-11	RES-CHIP	22	5%	1/16W
R312	1-218-965-11	RES-CHIP	10K	5%	1/16W
R316	1-218-965-11	RES-CHIP	10K	5%	1/16W
R317	1-218-941-81	RES-CHIP	100	5%	1/16W
R318	1-218-941-81	RES-CHIP	100	5%	1/16W
R321	1-218-941-81	RES-CHIP	100	5%	1/16W
R323	1-218-941-81	RES-CHIP	100	5%	1/16W
R324	1-218-990-11	SHORT CHIP	0		
R325	1-218-971-11	RES-CHIP	33K	5%	1/16W
R326	1-218-941-81	RES-CHIP	100	5%	1/16W

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Ref. No.	Part No.	Description			Remark
R327	1-218-941-81	RES-CHIP	100	5%	1/16W
R328	1-218-941-81	RES-CHIP	100	5%	1/16W
R329	1-218-941-81	RES-CHIP	100	5%	1/16W
R330	1-218-941-81	RES-CHIP	100	5%	1/16W
R331	1-218-945-11	RES-CHIP	220	5%	1/16W
R332	1-218-965-11	RES-CHIP	10K	5%	1/16W
R333	1-218-965-11	RES-CHIP	10K	5%	1/16W
R335	1-218-933-11	RES-CHIP	22	5%	1/16W
R337	1-218-941-81	RES-CHIP	100	5%	1/16W
R344	1-218-953-11	RES-CHIP	1K	5%	1/16W
R346	1-218-953-11	RES-CHIP	1K	5%	1/16W
R350	1-218-941-81	RES-CHIP	100	5%	1/16W
R353	1-218-965-11	RES-CHIP	10K	5%	1/16W
R354	1-218-989-11	RES-CHIP	1M	5%	1/16W
R355	1-218-933-11	RES-CHIP	22	5%	1/16W
R356	1-218-939-11	RES-CHIP	68	5%	1/16W
R357	1-218-939-11	RES-CHIP	68	5%	1/16W
R358	1-218-939-11	RES-CHIP	68	5%	1/16W
R359	1-218-965-11	RES-CHIP	10K	5%	1/16W
R360	1-218-965-11	RES-CHIP	10K	5%	1/16W
R361	1-218-965-11	RES-CHIP	10K	5%	1/16W
R362	1-218-943-11	RES-CHIP	150	5%	1/16W
R363	1-218-965-11	RES-CHIP	10K	5%	1/16W
R364	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R365	1-216-845-11	METAL CHIP	100K	5%	1/10W
R366	1-216-845-11	METAL CHIP	100K	5%	1/10W
R401	1-218-990-11	SHORT CHIP	0		
R411	1-218-990-11	SHORT CHIP	0		
R412	1-218-965-11	RES-CHIP	10K	5%	1/16W
R413	1-218-965-11	RES-CHIP	10K	5%	1/16W
R414	1-218-990-11	SHORT CHIP	0		
R416	1-218-990-11	SHORT CHIP	0		
R418	1-218-965-11	RES-CHIP	10K	5%	1/16W
R419	1-218-975-11	RES-CHIP	68K	5%	1/16W
R420	1-218-990-11	SHORT CHIP	0		
R421	1-218-953-11	RES-CHIP	1K	5%	1/16W
R423	1-218-953-11	RES-CHIP	1K	5%	1/16W
R425	1-218-953-11	RES-CHIP	1K	5%	1/16W
R426	1-218-953-11	RES-CHIP	1K	5%	1/16W
R428	1-218-953-11	RES-CHIP	1K	5%	1/16W
R429	1-218-953-11	RES-CHIP	1K	5%	1/16W
R430	1-218-953-11	RES-CHIP	1K	5%	1/16W
R433	1-218-973-11	RES-CHIP	47K	5%	1/16W
R434	1-218-973-11	RES-CHIP	47K	5%	1/16W
R437	1-218-973-11	RES-CHIP	47K	5%	1/16W
R439	1-218-947-11	RES-CHIP	330	5%	1/16W
R440	1-218-973-11	RES-CHIP	47K	5%	1/16W
R441	1-218-953-11	RES-CHIP	1K	5%	1/16W
R442	1-218-965-11	RES-CHIP	10K	5%	1/16W
R443	1-218-973-11	RES-CHIP	47K	5%	1/16W
R444	1-218-985-11	RES-CHIP	470K	5%	1/16W
R445	1-218-953-11	RES-CHIP	1K	5%	1/16W
R446	1-218-965-11	RES-CHIP	10K	5%	1/16W
R447	1-218-965-11	RES-CHIP	10K	5%	1/16W
R448	1-218-953-11	RES-CHIP	1K	5%	1/16W
R449	1-218-971-11	RES-CHIP	33K	5%	1/16W
R450	1-218-953-11	RES-CHIP	1K	5%	1/16W
R451	1-218-965-11	RES-CHIP	10K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R452	1-218-989-11	RES-CHIP	1M	5%	1/16W
R453	1-218-989-11	RES-CHIP	1M	5%	1/16W
R455	1-218-977-11	RES-CHIP	100K	5%	1/16W
R457	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R510	1-208-939-11	METAL CHIP	150K	0.5%	1/16W
R511	1-208-939-11	METAL CHIP	150K	0.5%	1/16W
R512	1-218-974-11	METAL CHIP	56K	0.5%	1/16W
R513	1-218-974-11	METAL CHIP	56K	0.5%	1/16W
R514	1-218-965-11	RES-CHIP	10K	5%	1/16W
R515	1-218-965-11	RES-CHIP	10K	5%	1/16W
R516	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R517	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R519	1-218-977-11	RES-CHIP	100K	5%	1/16W
R520	1-218-965-11	RES-CHIP	10K	5%	1/16W
R521	1-218-977-11	RES-CHIP	100K	5%	1/16W
R522	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R523	1-218-965-11	RES-CHIP	10K	5%	1/16W
R524	1-218-965-11	RES-CHIP	10K	5%	1/16W
R525	1-218-965-11	RES-CHIP	10K	5%	1/16W
R527	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R529	1-218-971-11	RES-CHIP	33K	5%	1/16W
R530	1-218-974-11	RES-CHIP	56K	5%	1/16W
R531	1-218-990-11	SHORT CHIP	0		
R532	1-218-990-11	SHORT CHIP	0		
R533	1-218-971-11	RES-CHIP	33K	5%	1/16W
R534	1-218-974-11	RES-CHIP	56K	5%	1/16W
R535	1-218-990-11	SHORT CHIP	0		
R536	1-220-210-11	RES-CHIP	200K	5%	1/16W
R538	1-218-977-11	RES-CHIP	100K	5%	1/16W
R540	1-218-965-11	RES-CHIP	10K	5%	1/16W
R541	1-218-977-11	RES-CHIP	100K	5%	1/16W
R544	1-218-977-11	RES-CHIP	100K	5%	1/16W
R545	1-218-977-11	RES-CHIP	100K	5%	1/16W
R579	1-218-964-11	RES-CHIP	8.2K	5%	1/16W
R580	1-218-971-11	RES-CHIP	33K	5%	1/16W
R581	1-218-966-11	RES-CHIP	12K	5%	1/16W
R582	1-218-965-11	RES-CHIP	10K	5%	1/16W
R583	1-218-965-11	RES-CHIP	10K	5%	1/16W
R590	1-218-953-11	RES-CHIP	1K	5%	1/16W
R592	1-218-990-11	SHORT CHIP	0		
R599	1-218-990-11	SHORT CHIP	0		
R600	1-218-941-81	RES-CHIP	100	5%	1/16W
R601	1-218-990-11	SHORT CHIP	0		
R602	1-218-989-11	RES-CHIP	1M	5%	1/16W
R603	1-218-941-81	RES-CHIP	100	5%	1/16W
R604	1-218-941-81	RES-CHIP	100	5%	1/16W
R605	1-218-953-11	RES-CHIP	1K	5%	1/16W
R606	1-218-941-81	RES-CHIP	100	5%	1/16W
R607	1-218-941-81	RES-CHIP	100	5%	1/16W
R608	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R609	1-218-949-11	RES-CHIP	470	5%	1/16W
R610	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R611	1-218-941-81	RES-CHIP	100	5%	1/16W
R612	1-218-973-11	RES-CHIP	47K	5%	1/16W
R613	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R614	1-218-971-11	RES-CHIP	33K	5%	1/16W
R615	1-218-961-11	RES-CHIP	4.7K	5%	1/16W

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Ref. No.	Part No.	Description			Remark
R616	1-218-962-11	RES-CHIP	5.6K	5%	1/16W
R618	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R619	1-218-973-11	RES-CHIP	47K	5%	1/16W
R621	1-218-941-81	RES-CHIP	100	5%	1/16W
R622	1-218-941-81	RES-CHIP	100	5%	1/16W
R623	1-218-941-81	RES-CHIP	100	5%	1/16W
R624	1-218-941-81	RES-CHIP	100	5%	1/16W
R625	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R626	1-218-953-11	RES-CHIP	1K	5%	1/16W
R627	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R628	1-218-941-81	RES-CHIP	100	5%	1/16W
R629	1-218-941-81	RES-CHIP	100	5%	1/16W
R630	1-218-949-11	RES-CHIP	470	5%	1/16W
R631	1-218-941-81	RES-CHIP	100	5%	1/16W
R634	1-218-953-11	RES-CHIP	1K	5%	1/16W
R637	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R639	1-218-941-81	RES-CHIP	100	5%	1/16W
R640	1-218-941-81	RES-CHIP	100	5%	1/16W
R642	1-218-941-81	RES-CHIP	100	5%	1/16W
R645	1-218-989-11	RES-CHIP	1M	5%	1/16W
R648	1-218-935-11	RES-CHIP	33	5%	1/16W
R655	1-218-941-81	RES-CHIP	100	5%	1/16W
R657	1-218-953-11	RES-CHIP	1K	5%	1/16W
R658	1-218-941-81	RES-CHIP	100	5%	1/16W
R659	1-218-935-11	RES-CHIP	33	5%	1/16W
R661	1-218-941-81	RES-CHIP	100	5%	1/16W
R662	1-218-941-81	RES-CHIP	100	5%	1/16W
R663	1-218-941-81	RES-CHIP	100	5%	1/16W
R664	1-218-941-81	RES-CHIP	100	5%	1/16W
R666	1-218-941-81	RES-CHIP	100	5%	1/16W
R667	1-218-941-81	RES-CHIP	100	5%	1/16W
R671	1-218-941-81	RES-CHIP	100	5%	1/16W
R672	1-218-941-81	RES-CHIP	100	5%	1/16W
R673	1-218-945-11	RES-CHIP	220	5%	1/16W
R674	1-218-945-11	RES-CHIP	220	5%	1/16W
R675	1-218-945-11	RES-CHIP	220	5%	1/16W
R676	1-218-945-11	RES-CHIP	220	5%	1/16W
R677	1-218-945-11	RES-CHIP	220	5%	1/16W
R678	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R679	1-218-941-81	RES-CHIP	100	5%	1/16W
R680	1-218-941-81	RES-CHIP	100	5%	1/16W
R683	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R685	1-218-965-11	RES-CHIP	10K	5%	1/16W
R687	1-218-953-11	RES-CHIP	1K	5%	1/16W
R688	1-218-990-11	SHORT CHIP	0		
R689	1-218-965-11	RES-CHIP	10K	5%	1/16W
R691	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R692	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R697	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R698	1-218-965-11	RES-CHIP	10K	5%	1/16W
R699	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R702	1-218-965-11	RES-CHIP	10K	5%	1/16W
R703	1-218-965-11	RES-CHIP	10K	5%	1/16W
R704	1-218-965-11	RES-CHIP	10K	5%	1/16W
R705	1-218-965-11	RES-CHIP	10K	5%	1/16W
R706	1-218-965-11	RES-CHIP	10K	5%	1/16W
R708	1-218-985-11	RES-CHIP	470K	5%	1/16W
R709	1-218-979-11	RES-CHIP	150K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R710	1-218-965-11	RES-CHIP	10K	5%	1/16W
R711	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R712	1-218-965-11	RES-CHIP	10K	5%	1/16W
R713	1-218-965-11	RES-CHIP	10K	5%	1/16W
R714	1-218-965-11	RES-CHIP	10K	5%	1/16W
R715	1-218-965-11	RES-CHIP	10K	5%	1/16W
R716	1-218-941-81	RES-CHIP	100	5%	1/16W
R717	1-218-977-11	RES-CHIP	100K	5%	1/16W
R718	1-218-965-11	RES-CHIP	10K	5%	1/16W
R719	1-218-953-11	RES-CHIP	1K	5%	1/16W
R720	1-218-953-11	RES-CHIP	1K	5%	1/16W
R721	1-208-719-11	METAL CHIP	33K	0.5%	1/16W
R724	1-208-683-11	METAL CHIP	1K	0.5%	1/16W
R725	1-208-689-11	METAL CHIP	1.8K	0.5%	1/16W
R726	1-208-935-11	METAL CHIP	100K	0.5%	1/16W
R727	1-208-695-11	METAL CHIP	3.3K	0.5%	1/16W
R728	1-208-707-11	METAL CHIP	10K	0.5%	1/16W
R729	1-218-964-11	RES-CHIP	8.2K	5%	1/16W
R730	1-218-933-11	RES-CHIP	22	5%	1/16W
R731	1-218-933-11	RES-CHIP	22	5%	1/16W
R732	1-218-965-11	RES-CHIP	10K	5%	1/16W
R735	1-218-965-11	RES-CHIP	10K	5%	1/16W
R737	1-218-965-11	RES-CHIP	10K	5%	1/16W
R738	1-218-933-11	RES-CHIP	22	5%	1/16W
R739	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R740	1-218-953-11	RES-CHIP	1K	5%	1/16W
R741	1-218-933-11	RES-CHIP	22	5%	1/16W
R742	1-218-933-11	RES-CHIP	22	5%	1/16W
R743	1-218-933-11	RES-CHIP	22	5%	1/16W
R744	1-218-933-11	RES-CHIP	22	5%	1/16W
R745	1-218-973-11	RES-CHIP	47K	5%	1/16W
R746	1-218-973-11	RES-CHIP	47K	5%	1/16W
R747	1-218-971-11	RES-CHIP	33K	5%	1/16W
R748	1-218-971-11	RES-CHIP	33K	5%	1/16W
R750	1-218-965-11	RES-CHIP	10K	5%	1/16W
R760	1-218-990-11	SHORT CHIP	0		
R762	1-218-969-11	RES-CHIP	22K	5%	1/16W
R763	1-218-964-11	RES-CHIP	8.2K	5%	1/16W
R764	1-218-989-11	RES-CHIP	1M	5%	1/16W
R765	1-218-969-11	RES-CHIP	22K	5%	1/16W
R767	1-218-973-11	RES-CHIP	47K	5%	1/16W
R768	1-218-990-11	SHORT CHIP	0		
R771	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R772	1-218-933-11	RES-CHIP	22	5%	1/16W
R776	1-218-990-11	SHORT CHIP	0		
R777	1-218-990-11	SHORT CHIP	0		
R778	1-218-977-11	RES-CHIP	100K	5%	1/16W
R780	1-218-990-11	SHORT CHIP	0		
R781	1-218-990-11	SHORT CHIP	0		
R799	1-218-990-11	SHORT CHIP	0		
R800	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R803	1-218-941-81	RES-CHIP	100	5%	1/16W
R804	1-218-990-11	SHORT CHIP	0		
R805	1-218-965-11	RES-CHIP	10K	5%	1/16W
R806	1-218-990-11	SHORT CHIP	0		
R808	1-218-965-11	RES-CHIP	10K	5%	1/16W
R821	1-218-933-11	RES-CHIP	22	5%	1/16W

DMB08

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R822	1-218-933-11	RES-CHIP	22 5% 1/16W	R929	1-218-964-11	RES-CHIP	8.2K 5% 1/16W
R823	1-218-933-11	RES-CHIP	22 5% 1/16W	R930	1-218-965-11	RES-CHIP	10K 5% 1/16W
R826	1-218-933-11	RES-CHIP	22 5% 1/16W				
R827	1-218-941-81	RES-CHIP	100 5% 1/16W	R931	1-218-953-11	RES-CHIP	1K 5% 1/16W
R828	1-218-961-11	RES-CHIP	4.7K 5% 1/16W	R932	1-218-965-11	RES-CHIP	10K 5% 1/16W
				R933	1-218-961-11	RES-CHIP	4.7K 5% 1/16W
R829	1-218-941-81	RES-CHIP	100 5% 1/16W	R935	1-218-965-11	RES-CHIP	10K 5% 1/16W
R830	1-218-961-11	RES-CHIP	4.7K 5% 1/16W	R936	1-218-959-11	RES-CHIP	3.3K 5% 1/16W
R831	1-218-971-11	RES-CHIP	33K 5% 1/16W				
R839	1-218-961-11	RES-CHIP	4.7K 5% 1/16W	R939	1-218-965-11	RES-CHIP	10K 5% 1/16W
R842	1-218-965-11	RES-CHIP	10K 5% 1/16W	R941	1-218-965-11	RES-CHIP	10K 5% 1/16W
				R942	1-218-965-11	RES-CHIP	10K 5% 1/16W
R847	1-218-933-11	RES-CHIP	22 5% 1/16W	R943	1-218-965-11	RES-CHIP	10K 5% 1/16W
R848	1-218-933-11	RES-CHIP	22 5% 1/16W	R944	1-218-965-11	RES-CHIP	10K 5% 1/16W
R849	1-218-933-11	RES-CHIP	22 5% 1/16W				
R850	1-218-933-11	RES-CHIP	22 5% 1/16W	R945	1-218-973-11	RES-CHIP	47K 5% 1/16W
R867	1-218-990-11	SHORT CHIP	0	R949	1-218-965-11	RES-CHIP	10K 5% 1/16W
				R950	1-218-973-11	RES-CHIP	47K 5% 1/16W
R882	1-218-965-11	RES-CHIP	10K 5% 1/16W	R951	1-218-965-11	RES-CHIP	10K 5% 1/16W
R883	1-218-965-11	RES-CHIP	10K 5% 1/16W	R953	1-218-941-81	RES-CHIP	100 5% 1/16W
R884	1-218-965-11	RES-CHIP	10K 5% 1/16W				
R885	1-218-965-11	RES-CHIP	10K 5% 1/16W	R954	1-218-965-11	RES-CHIP	10K 5% 1/16W
R886	1-218-965-11	RES-CHIP	10K 5% 1/16W	R955	1-218-965-11	RES-CHIP	10K 5% 1/16W
				R957	1-218-965-11	RES-CHIP	10K 5% 1/16W
R887	1-218-965-11	RES-CHIP	10K 5% 1/16W	R959	1-218-990-11	SHORT CHIP	0
R888	1-218-965-11	RES-CHIP	10K 5% 1/16W	R960	1-218-965-11	RES-CHIP	10K 5% 1/16W
R889	1-218-965-11	RES-CHIP	10K 5% 1/16W				
R890	1-218-941-81	RES-CHIP	100 5% 1/16W	R961	1-218-965-11	RES-CHIP	10K 5% 1/16W
R891	1-218-941-81	RES-CHIP	100 5% 1/16W	R962	1-218-965-11	RES-CHIP	10K 5% 1/16W
				R963	1-218-957-11	RES-CHIP	2.2K 5% 1/16W
R892	1-218-941-81	RES-CHIP	100 5% 1/16W	R964	1-218-977-11	RES-CHIP	100K 5% 1/16W
R894	1-218-965-11	RES-CHIP	10K 5% 1/16W	R967	1-218-941-81	RES-CHIP	100 5% 1/16W
R895	1-218-965-11	RES-CHIP	10K 5% 1/16W				
R896	1-218-973-11	RES-CHIP	47K 5% 1/16W	R968	1-218-941-81	RES-CHIP	100 5% 1/16W
R897	1-218-965-11	RES-CHIP	10K 5% 1/16W	R969	1-218-973-11	RES-CHIP	47K 5% 1/16W
				R971	1-218-965-11	RES-CHIP	10K 5% 1/16W
R900	1-218-941-81	RES-CHIP	100 5% 1/16W	R972	1-218-965-11	RES-CHIP	10K 5% 1/16W
R901	1-218-941-81	RES-CHIP	100 5% 1/16W	R973	1-218-990-11	SHORT CHIP	0
R902	1-218-941-81	RES-CHIP	100 5% 1/16W				
R903	1-218-941-81	RES-CHIP	100 5% 1/16W	R977	1-218-969-11	RES-CHIP	22K 5% 1/16W
R904	1-218-941-81	RES-CHIP	100 5% 1/16W	R978	1-218-953-11	RES-CHIP	1K 5% 1/16W
				R979	1-218-973-11	RES-CHIP	47K 5% 1/16W
R905	1-218-941-81	RES-CHIP	100 5% 1/16W	R980	1-218-973-11	RES-CHIP	47K 5% 1/16W
R906	1-218-959-11	RES-CHIP	3.3K 5% 1/16W	R981	1-218-961-11	RES-CHIP	4.7K 5% 1/16W
R907	1-218-959-11	RES-CHIP	3.3K 5% 1/16W				
R908	1-218-965-11	RES-CHIP	10K 5% 1/16W	R983	1-218-973-11	RES-CHIP	47K 5% 1/16W
R909	1-218-965-11	RES-CHIP	10K 5% 1/16W	R984	1-218-973-11	RES-CHIP	47K 5% 1/16W
				R985	1-218-985-11	RES-CHIP	470K 5% 1/16W
R910	1-218-941-81	RES-CHIP	100 5% 1/16W	R986	1-218-973-11	RES-CHIP	47K 5% 1/16W
R911	1-218-957-11	RES-CHIP	2.2K 5% 1/16W	R987	1-218-973-11	RES-CHIP	47K 5% 1/16W
R912	1-218-957-11	RES-CHIP	2.2K 5% 1/16W				
R913	1-218-957-11	RES-CHIP	2.2K 5% 1/16W	R989	1-218-990-11	SHORT CHIP	0
R914	1-218-957-11	RES-CHIP	2.2K 5% 1/16W	R990	1-218-957-11	RES-CHIP	2.2K 5% 1/16W
				R991	1-218-965-11	RES-CHIP	10K 5% 1/16W
R915	1-218-957-11	RES-CHIP	2.2K 5% 1/16W	R992	1-218-965-11	RES-CHIP	10K 5% 1/16W
R916	1-218-941-81	RES-CHIP	100 5% 1/16W	R994	1-218-961-11	RES-CHIP	4.7K 5% 1/16W
R917	1-218-952-11	RES-CHIP	820 5% 1/16W				
R918	1-218-952-11	RES-CHIP	820 5% 1/16W	R995	1-218-961-11	RES-CHIP	4.7K 5% 1/16W
R919	1-218-957-11	RES-CHIP	2.2K 5% 1/16W	R996	1-218-961-11	RES-CHIP	4.7K 5% 1/16W
				R997	1-218-961-11	RES-CHIP	4.7K 5% 1/16W
R920	1-218-941-81	RES-CHIP	100 5% 1/16W	R998	1-218-961-11	RES-CHIP	4.7K 5% 1/16W
R921	1-218-941-81	RES-CHIP	100 5% 1/16W				
R922	1-218-965-11	RES-CHIP	10K 5% 1/16W	< NETWORK RESISTOR >			
R924	1-218-941-81	RES-CHIP	100 5% 1/16W	RB901	1-233-270-11	NETWORK, RES (8 GANG) 10K	
R925	1-218-941-81	RES-CHIP	100 5% 1/16W	RB902	1-233-270-11	NETWORK, RES (8 GANG) 10K	
R926	1-218-941-81	RES-CHIP	100 5% 1/16W				
R927	1-218-941-81	RES-CHIP	100 5% 1/16W				
R928	1-218-990-11	SHORT CHIP	0				

HCD-FR10W

DMB08
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Ref. No.	Part No.	Description	Remark		
< VIBRATOR >					
X301	1-795-375-11	VIBRATOR, CERAMIC 20MHz			
X302	1-795-630-11	VIBRATOR, CRYSTAL 27MHz			
X600	1-781-465-21	VIBRATOR, CRYSTAL 12.288MHz			
X601	1-813-325-11	VIBRATOR, CRYSTAL 13.9MHz			
X901	1-795-375-11	VIBRATOR, CERAMIC 20MHz			

A-4751-757-A		FL BOARD, COMPLETE	*****		
< CAPACITOR >					
C805	1-126-795-11	ELECT	10uF	20%	50V
C807	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C841	1-117-370-11	CERAMIC CHIP	10uF		10V
C842	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C843	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C846	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C847	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C848	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C849	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C850	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
< CONNECTOR >					
CN803	1-779-554-21	CONNECTOR, FFC (LIF (NON-ZIF)) 17P			
CN812	1-784-859-21	CONNECTOR, FFC (LIF (NON-ZIF)) 7P			
< FERRITE BEAD >					
FB005	1-469-144-21	FERRITE, EMI (SMD) (2012)			
FB007	1-414-813-11	FERRITE, EMI (SMD) (2012)			
< FLUORESCENT INDICATOR >					
FL801	1-519-759-11	INDICATOR TUBE, FLUORESCENT			
< IC >					
IC801	8-759-826-33	IC NJL73H400A ()			
IC803	6-705-899-01	IC ML9208-03MBZ03B			
< TRANSISTOR >					
Q810	8-729-120-28	TRANSISTOR	2SC1623-T1-L5L6		
< RESISTOR >					
R828	1-216-864-11	SHORT CHIP	0		
R840	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R843	1-216-833-11	METAL CHIP	10K	5%	1/10W
R844	1-216-809-11	METAL CHIP	100	5%	1/10W
R849	1-216-833-11	METAL CHIP	10K	5%	1/10W
R851	1-216-809-11	METAL CHIP	100	5%	1/10W
R852	1-216-805-11	METAL CHIP	47	5%	1/10W
R853	1-216-809-11	METAL CHIP	100	5%	1/10W
R877	1-216-821-11	METAL CHIP	1K	5%	1/10W
R878	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R879	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R880	1-216-821-11	METAL CHIP	1K	5%	1/10W
R881	1-216-821-11	METAL CHIP	1K	5%	1/10W
R882	1-216-821-11	METAL CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description	Remark		
HP BOARD					

< CAPACITOR >					
C800	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C801	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C802	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C803	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C804	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C806	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C853	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C854	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
< CONNECTOR >					
* CN811	1-566-002-11	PIN, CONNECTOR (PC BOARD) 5P			
< DIODE >					
D800	8-719-988-61	DIODE	1SS355TE-17		
D801	8-719-988-61	DIODE	1SS355TE-17		
< FERRITE BEAD >					
FB800	1-500-284-21	INDUCTOR, FERRITE BEAD			
FB802	1-469-144-21	FERRITE, EMI (SMD) (2012)			
FB803	1-469-144-21	FERRITE, EMI (SMD) (2012)			
FB805	1-469-144-21	FERRITE, EMI (SMD) (2012)			
FB810	1-469-324-21	FERRITE, EMI (SMD) (2012)			
< JACK >					
J800	1-794-453-11	JACK (PHONES)			
< COIL >					
L800	1-410-387-11	INDUCTOR	33uH		
L801	1-410-387-11	INDUCTOR	33uH		
L802	1-469-144-21	FERRITE, EMI (SMD) (2012)			
L803	1-469-144-21	FERRITE, EMI (SMD) (2012)			
< TRANSISTOR >					
Q800	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q801	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q803	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q804	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
< RESISTOR >					
R800	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R801	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R802	1-216-809-11	METAL CHIP	100	5%	1/10W
R803	1-216-809-11	METAL CHIP	100	5%	1/10W
R805	1-216-809-11	METAL CHIP	100	5%	1/10W
R807	1-216-809-11	METAL CHIP	100	5%	1/10W

A-1066-582-A		IO BOARD, COMPLETE			

< CAPACITOR >					
C101	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C102	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C103	1-126-934-11	ELECT	220uF	20%	16V

Ref. No.	Part No.	Description	Remark		
C105	1-115-156-11	CERAMIC CHIP	1uF		10V
C106	1-115-156-11	CERAMIC CHIP	1uF		10V
C107	1-104-662-91	ELECT	22uF	20%	25V
C108	1-104-662-91	ELECT	22uF	20%	25V
C109	1-104-509-11	CERAMIC CHIP	0.018uF	10%	16V
C110	1-104-509-11	CERAMIC CHIP	0.018uF	10%	16V
C111	1-104-662-91	ELECT	22uF	20%	25V
C112	1-104-662-91	ELECT	22uF	20%	25V
C212	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C216	1-126-964-11	ELECT	10uF	20%	50V
C217	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C218	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C221	1-115-156-11	CERAMIC CHIP	1uF		10V
C222	1-115-156-11	CERAMIC CHIP	1uF		10V
C223	1-115-156-11	CERAMIC CHIP	1uF		10V
C224	1-126-933-11	ELECT	100uF	20%	16V
C225	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C227	1-104-662-91	ELECT	22uF	20%	25V
C229	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C234	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C235	1-126-916-11	ELECT	1000uF	20%	6.3V
C238	1-126-916-11	ELECT	1000uF	20%	6.3V
C239	1-126-916-11	ELECT	1000uF	20%	6.3V
C240	1-126-916-11	ELECT	1000uF	20%	6.3V
C241	1-126-916-11	ELECT	1000uF	20%	6.3V
C278	1-126-964-11	ELECT	10uF	20%	50V
C603	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C604	1-126-933-11	ELECT	100uF	20%	16V
C605	1-104-662-91	ELECT	22uF	20%	25V
C606	1-104-662-91	ELECT	22uF	20%	25V
C607	1-104-662-91	ELECT	22uF	20%	25V
C608	1-104-662-91	ELECT	22uF	20%	25V
C609	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C610	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C611	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C612	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C624	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C625	1-104-662-91	ELECT	22uF	20%	25V
C626	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C627	1-104-662-91	ELECT	22uF	20%	25V
C628	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C629	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C631	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C632	1-126-933-11	ELECT	100uF	20%	16V
C633	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C634	1-104-662-91	ELECT	22uF	20%	25V
C635	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C636	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C637	1-104-662-91	ELECT	22uF	20%	25V
C638	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C639	1-126-933-11	ELECT	100uF	20%	16V
C645	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C646	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
< CONNECTOR >					
CN102	1-816-955-11	CONNECTOR, FFC/FPC 11P			
CN201	1-784-213-11	CONNECTOR, FFC (LIF (NON-ZIF)) 15P			

Ref. No.	Part No.	Description	Remark		
CN601	1-779-297-11	CONNECTOR, FFC (LIF (NON-ZIF)) 29P			
< IC >					
IC201	6-705-602-01	IC MM1623BFBE			
IC602	8-759-385-76	IC MC14052 BDR2			
IC603	6-600-014-01	IC TORX141L (OPTICAL DIGITAL IN)			
IC605	6-706-078-01	IC M62429FP-TP			
IC606	6-705-720-01	IC RC4580IDR			
< JACK >					
J201	1-817-449-11	JACK, PIN 3P (COMPONENT VIDEO OUT)			
J202	1-694-920-11	TERMINAL BOARD (S TERMINAL+1P)	(MONITOR OUT)		
J601	1-816-918-11	JACK, PIN 4P (VIDEO/SAT)			
J602	1-774-785-11	JACK, PIN 1P (SURROUND BACK)			
< COIL >					
L101	1-469-525-91	INDUCTOR	10uH		
L209	1-469-525-91	INDUCTOR	10uH		
L214	1-216-864-11	SHORT CHIP	0		
L601	1-469-525-91	INDUCTOR	10uH		
L602	1-469-525-91	INDUCTOR	10uH		
< TRANSISTOR >					
Q101	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q102	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q604	8-729-901-00	TRANSISTOR	DTC124EKA-T146		
Q605	8-729-901-00	TRANSISTOR	DTC124EKA-T146		
Q606	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q607	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
< RESISTOR >					
R101	1-216-864-11	SHORT CHIP	0		
R103	1-216-864-11	SHORT CHIP	0		
R106	1-216-821-11	METAL CHIP	1K	5%	1/10W
R107	1-216-853-11	METAL CHIP	470K	5%	1/10W
R108	1-216-853-11	METAL CHIP	470K	5%	1/10W
R109	1-216-821-11	METAL CHIP	1K	5%	1/10W
R110	1-216-813-11	METAL CHIP	220	5%	1/10W
R111	1-216-813-11	METAL CHIP	220	5%	1/10W
R112	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R113	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R114	1-216-839-11	METAL CHIP	33K	5%	1/10W
R115	1-216-839-11	METAL CHIP	33K	5%	1/10W
R116	1-216-839-11	METAL CHIP	33K	5%	1/10W
R117	1-216-839-11	METAL CHIP	33K	5%	1/10W
R118	1-216-839-11	METAL CHIP	33K	5%	1/10W
R119	1-216-839-11	METAL CHIP	33K	5%	1/10W
R128	1-216-864-11	SHORT CHIP	0		
R203	1-216-821-11	METAL CHIP	1K	5%	1/10W
R204	1-216-821-11	METAL CHIP	1K	5%	1/10W
R224	1-216-833-11	METAL CHIP	10K	5%	1/10W
R225	1-218-285-11	METAL CHIP	75	5%	1/10W
R226	1-218-285-11	METAL CHIP	75	5%	1/10W
R227	1-218-285-11	METAL CHIP	75	5%	1/10W
R228	1-218-285-11	METAL CHIP	75	5%	1/10W
R229	1-218-285-11	METAL CHIP	75	5%	1/10W
R230	1-218-285-11	METAL CHIP	75	5%	1/10W

HCD-FR10W

IO	LF	MODE MOTOR	PW KEY	RELAY
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Ref. No.	Part No.	Description	Remark
R234	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R601	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R602	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R603	1-216-809-11	METAL CHIP 100 5% 1/10W	
R604	1-216-809-11	METAL CHIP 100 5% 1/10W	
R605	1-216-809-11	METAL CHIP 100 5% 1/10W	
R607	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R608	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R609	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R610	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R621	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R622	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R623	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R624	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R625	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R626	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R627	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R628	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R629	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R630	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R631	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R632	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R633	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
R634	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
R635	1-218-867-11	METAL CHIP 6.8K 5% 1/10W	
R636	1-218-867-11	METAL CHIP 6.8K 5% 1/10W	
R645	1-216-809-11	METAL CHIP 100 5% 1/10W	
R647	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R648	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R649	1-216-839-11	METAL CHIP 33K 5% 1/10W	
R650	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R651	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R652	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R653	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R654	1-216-813-11	METAL CHIP 220 5% 1/10W	
R655	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R656	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R657	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R659	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R661	1-216-813-11	METAL CHIP 220 5% 1/10W	
R664	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	

LF BOARD

< CAPACITOR >

△ C903 1-117-916-51 FILM 0.22uF 10% 275V

< CONNECTOR >

CN900 1-564-321-00 PIN, CONNECTOR (3.96mm PITCH) 2P
* CN901 1-564-321-21 PIN, CONNECTOR (3.96mm PITCH) 2P

< LINE FILTER >

△ LF901 1-456-081-21 COIL, LINE FILTER

Ref. No.	Part No.	Description	Remark
		MODE MOTOR BOARD	

		PW KEY BOARD	

		< CAPACITOR >	
C811	1-164-360-11	CERAMIC CHIP 0.1uF	16V
		< CONNECTOR >	
* CN805	1-568-941-11	PIN, CONNECTOR 3P	
		< DIODE >	
D802	6-500-817-01	DIODE (LED) SML-512UWT86 (I/⌚)	
		< RESISTOR >	
R809	1-216-864-11	SHORT CHIP 0	
		< SWITCH >	
S800	1-771-884-31	SWITCH, TACTILE (I/⌚)	

	A-4728-700-A	RELAY BOARD, COMPLETE	

		< CAPACITOR >	
C711	1-126-795-11	ELECT 10uF	20% 50V
C751	1-164-159-21	CERAMIC 0.1uF	50V
C752	1-164-159-21	CERAMIC 0.1uF	50V
C753	1-164-159-21	CERAMIC 0.1uF	50V
C754	1-164-159-21	CERAMIC 0.1uF	50V
C755	1-164-159-21	CERAMIC 0.1uF	50V
C756	1-164-159-21	CERAMIC 0.1uF	50V
C758	1-164-159-21	CERAMIC 0.1uF	50V
C761	1-162-306-11	CERAMIC 0.01uF	30% 16V
C762	1-164-159-21	CERAMIC 0.1uF	50V
C763	1-164-159-21	CERAMIC 0.1uF	50V
C764	1-164-159-21	CERAMIC 0.1uF	50V
C765	1-164-159-21	CERAMIC 0.1uF	50V
C766	1-164-159-21	CERAMIC 0.1uF	50V
C767	1-164-159-21	CERAMIC 0.1uF	50V
C768	1-164-159-21	CERAMIC 0.1uF	50V
C769	1-164-159-21	CERAMIC 0.1uF	50V
C771	1-162-306-11	CERAMIC 0.01uF	30% 16V
C781	1-162-306-11	CERAMIC 0.01uF	30% 16V
		< CONNECTOR >	
CN701	1-779-565-21	CONNECTOR, FFC (LIF (NON-ZIF)) 28P	
CN702	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE) 3P	
CN703	1-785-328-11	PIN, CONNECTOR (LIGHT ANGLE) 2P	
CN704	1-785-328-11	PIN, CONNECTOR (LIGHT ANGLE) 2P	
CN710	1-568-945-11	PIN, CONNECTOR 7P	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

RELAY

RF

Ref. No.	Part No.	Description	Remark			
		< DIODE >				
D701	8-719-921-40	DIODE MTZJ-T-77-4.7B				
D711	8-719-921-42	DIODE MTZJ-T-77-5.1A				
D721	8-719-982-03	DIODE MTZJ-T-77-3.6A				
		< IC >				
IC701	8-759-598-69	IC BA6956AN				
IC711	8-759-598-69	IC BA6956AN				
IC721	8-759-598-69	IC BA6956AN				
		< TRANSISTOR >				
Q731	8-729-029-66	TRANSISTOR RT1N141S-TP				
		< RESISTOR >				
R701	1-249-415-11	CARBON	680	5%	1/4W	
R702	1-247-807-31	CARBON	100	5%	1/4W	
R711	1-249-415-11	CARBON	680	5%	1/4W	
R712	1-247-807-31	CARBON	100	5%	1/4W	
R721	1-249-415-11	CARBON	680	5%	1/4W	
R722	1-247-807-31	CARBON	100	5%	1/4W	
R731	1-249-407-11	CARBON	150	5%	1/4W	
R732	1-249-417-11	CARBON	1K	5%	1/4W	
R733	1-249-429-11	CARBON	10K	5%	1/4W	
R734	1-249-431-11	CARBON	15K	5%	1/4W	

A-4728-690-A	RF BOARD, COMPLETE					

		< CAPACITOR >				
C001	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C002	1-124-779-00	ELECT CHIP	10uF	20%	16V	
C003	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C004	1-124-779-00	ELECT CHIP	10uF	20%	16V	
C005	1-128-993-21	ELECT CHIP	22uF	20%	10V	
C006	1-128-993-21	ELECT CHIP	22uF	20%	10V	
C008	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C009	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C010	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	
C011	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	
C012	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C013	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C014	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C015	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C016	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C017	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C018	1-164-172-11	CERAMIC CHIP	0.0056uF	10%	25V	
C019	1-164-172-11	CERAMIC CHIP	0.0056uF	10%	25V	
C020	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
C021	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
C022	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
C023	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
C024	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C025	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C026	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C027	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C028	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C029	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	

Ref. No.	Part No.	Description	Remark			
C030	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C031	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	
C032	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	
C033	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C034	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C035	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C036	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V	
C037	1-162-959-11	CERAMIC CHIP	330PF	5%	50V	
C038	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	
C039	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	
C040	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C041	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C042	1-164-218-11	CERAMIC CHIP	180PF	0.25PF	50V	
C049	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C050	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V	
C051	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V	
C052	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
		< CONNECTOR >				
CN001	1-815-031-11	CONNECTOR, FFC/FPC (ZIF) 24P				
CN002	1-784-836-21	CONNECTOR, FFC (LIF (NON-ZIF)) 29P				
CN003	1-784-861-21	CONNECTOR, FFC (LIF (NON-ZIF)) 9P				
		< DIODE >				
D001	8-719-988-61	DIODE 1SS355TE-17				
D002	8-719-988-61	DIODE 1SS355TE-17				
		< IC >				
IC001	6-703-922-01	IC SP3723CAF0PM				
IC003	6-703-921-01	IC TL343IDBVR				
		< COIL >				
L001	1-412-031-11	INDUCTOR CHIP	47uH			
L002	1-412-031-11	INDUCTOR CHIP	47uH			
		< TRANSISTOR >				
Q001	8-729-903-46	TRANSISTOR	2SB1132-T100-QR			
Q002	8-729-903-46	TRANSISTOR	2SB1132-T100-QR			
		< RESISTOR >				
R001	1-218-668-11	METAL CHIP	100	0.5%	1/16W	
R003	1-216-803-11	METAL CHIP	33	5%	1/10W	
R004	1-216-803-11	METAL CHIP	33	5%	1/10W	
R005	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R006	1-216-817-11	METAL CHIP	470	5%	1/10W	
R007	1-216-803-11	METAL CHIP	33	5%	1/10W	
R008	1-216-803-11	METAL CHIP	33	5%	1/10W	
R009	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R010	1-216-817-11	METAL CHIP	470	5%	1/10W	
R011	1-216-864-11	METAL CHIP	0	5%	1/10W	
R012	1-216-864-11	METAL CHIP	0	5%	1/10W	
R013	1-216-864-11	METAL CHIP	0	5%	1/10W	
R014	1-216-864-11	METAL CHIP	0	5%	1/10W	
R015	1-216-864-11	METAL CHIP	0	5%	1/10W	
R016	1-216-864-11	METAL CHIP	0	5%	1/10W	
R017	1-216-864-11	METAL CHIP	0	5%	1/10W	
R018	1-216-864-11	METAL CHIP	0	5%	1/10W	

HCD-FR10W

RF
ROLLER MOTOR
SENSOR
SONY LAMP
STOCKER MOTOR
SW (1)
SW (2)
SW (3)
SW (4)

Ref. No.	Part No.	Description	Remark		
R019	1-216-864-11	METAL CHIP	0	5%	1/10W
R020	1-216-864-11	METAL CHIP	0	5%	1/10W
R021	1-216-864-11	METAL CHIP	0	5%	1/10W
R022	1-216-813-11	METAL CHIP	220	5%	1/10W
R023	1-216-820-11	METAL CHIP	820	5%	1/10W
R024	1-216-864-11	METAL CHIP	0	5%	1/10W
R025	1-216-809-11	METAL CHIP	100	5%	1/10W
R026	1-218-718-11	METAL CHIP	12K	0.5%	1/16W
R027	1-216-864-11	METAL CHIP	0	5%	1/10W
R028	1-216-864-11	METAL CHIP	0	5%	1/10W
R029	1-216-864-11	METAL CHIP	0	5%	1/10W
R031	1-216-809-11	METAL CHIP	100	5%	1/10W
R033	1-216-845-11	METAL CHIP	100K	5%	1/10W
R034	1-216-817-11	RES-CHIP	470	5%	1/10W
R035	1-216-864-11	METAL CHIP	0	5%	1/10W
R041	1-216-821-11	METAL CHIP	1K	5%	1/10W
R046	1-216-833-11	METAL CHIP	10K	5%	1/10W
R047	1-216-839-11	METAL CHIP	33K	5%	1/10W
R091	1-218-913-11	METAL CHIP	560K	0.5%	1/10W

ROLLER MOTOR BOARD

1-685-004-11 SENSOR BOARD

< PHOTO SENSOR >

IC751 8-749-017-45 SENSOR, PHOTO RPR-220C1N
(DISC INSERT DETECT SENSOR)

SONY LAMP BOARD

< CAPACITOR >

C877	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C878	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V

< CONNECTOR >

CN804 1-506-481-11 PIN, CONNECTOR 2P

< DIODE >

D823	6-500-929-01	DIODE SML-512WBCW1AR (SONY)
D824	6-500-929-01	DIODE SML-512WBCW1AR (SONY)

< RESISTOR >

R854	1-216-809-11	METAL CHIP	100	5%	1/10W
R855	1-216-809-11	METAL CHIP	100	5%	1/10W

1-685-006-11 STOCKER MOTOR BOARD

Ref. No.	Part No.	Description	Remark
	1-685-008-11	SW (1) BOARD *****	
		< SWITCH >	
S711	1-786-382-11	SWITCH, PUSH (1 KEY) (DISC INSERT (8/12cm))	

	1-685-009-11	SW (2) BOARD *****	
		< SWITCH >	
S713	1-786-382-11	SWITCH, PUSH (1 KEY) (DISC IN (8/12cm))	
S714	1-786-382-11	SWITCH, PUSH (1 KEY) (DISC IN (8cm))	

	1-685-010-11	SW (3) BOARD *****	
		< SWITCH >	
S715	1-786-382-11	SWITCH, PUSH (1 KEY) (DISC OUT)	

	1-685-011-11	SW (4) BOARD *****	
		< SWITCH >	
S716	1-786-382-11	SWITCH, PUSH (1 KEY) (STOCKER IN/OUT)	
S717	1-786-382-11	SWITCH, PUSH (1 KEY) (DISC POSITION)	
S718	1-786-382-11	SWITCH, PUSH (1 KEY) (STOCKING)	

		MISCELLANEOUS *****	
4	1-763-861-12	FAN, DC	
△ 6	1-783-531-72	CORD, POWER	
8	1-828-962-11	WIRE (FLAT TYPE) (11 CORE)	
62	1-829-320-11	FLEXIBLE FLAT CABLE (13 CORE)	
63	1-829-321-11	FLEXIBLE FLAT CABLE (17 CORE)	
106	1-829-322-11	FLEXIBLE FLAT CABLE (9 CORE)	
107	1-829-319-11	FLEXIBLE FLAT CABLE (17 CORE)	
108	1-828-349-11	WIRE (FLAT TYPE) (17 CORE)	
109	1-829-323-11	FLEXIBLE FLAT CABLE (29 CORE)	
110	1-829-326-11	FLEXIBLE FLAT CABLE (15 CORE)	
111	1-829-325-11	FLEXIBLE FLAT CABLE (29 CORE)	
112	1-829-324-11	FLEXIBLE FLAT CABLE (28 CORE)	
114	1-829-742-11	CABLE, FLEXIBLE FLAT (11 CORE)	
△ 116	1-468-838-11	REGULATOR, SWITCHING	
△ 603	A-4713-410-A	OPTICAL PICK-UP (DBU-1 ASSY) (SERVICE)	
605	1-685-250-11	FLEXIBLE BOARD	
M761	A-4735-953-A	MOTOR (STOCKER) ASSY (MODE)	
M771	A-4735-953-A	MOTOR (STOCKER) ASSY (ROLLER)	
M781	A-4735-953-A	MOTOR (STOCKER) ASSY (STOCKER)	
S702	1-477-299-11	ENCODER, ROTARY (STOCKER POSITION)	
S771	1-477-300-11	ENCODER, ROTARY (MODE)	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

MEMO

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892498299

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REVISION HISTORY

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Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

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